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BIRD INVENTORY AT THE OBED WILD AND SCENIC RIVER, 2003-2005

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ABSTRACT

A bird inventory was conducted at the Obed Wild and Scenic River in Cumberland and Morgan counties, Tennessee, from July 2003 to November 2005. Visits were made on 66 days during all seasons. Birds were detected using five different survey methods: point counts, migration walks, night surveys, raptor surveys and general surveys. As a result of the inventory 148 species, including 85 breeding species, were detected in the park. Each species is assigned a status category, including whether or not and to what degree it is a breeder. In addition, each species' abundance during each season is specified. Specific recommendations to improve habitat in the park for birds are provided.

INTRODUCTION

The Obed Wild and Scenic River (OWSR)—authorized by Congress in 1976 to preserve one of the most rugged and scenic river systems in the southeastern United States and recommended in 2005 to become an Important Bird Area in Tennessee under the auspices of Partners in Flight and the Tennessee Wildlife Resources Agency —is located in Cumberland and Morgan counties, Tennessee. Including 73 linear km of the Obed River and its major tributaries, Daddy's Creek and Clear Creek, as well as a short stretch of the Emory River, the park contains the only federally designated Wild and Scenic River in Tennessee and lies on the Cumberland Plateau about 80 km (50 mi) west of Knoxville. The park visitor center is situated in Wartburg, the county seat of Morgan County. Major access points to the park may be reached from the east via Wartburg or from the south via Rt. 298 in Crossville.

The purposes of this study were to attempt to document at least 90% of the birds reasonably expected to occur in the park; to conduct structured inventories using a statistically valid study design involving 1-hectare circular plots placed in different vegetative community types; to describe the distribution and, if possible, relative abundance of species of special

concern in the OWSR; and to provide baseline information on the distribution, abundance, and habitat associations of bird populations in the park.

STUDY SITE

Elevation in the OWSR (Figure 1) ranges from 260 m in the bottom of the gorge near Nemo to 550 m along the gorge rim in the western parts of the park; the park covers 2073 hectares, not all of which has been purchased.

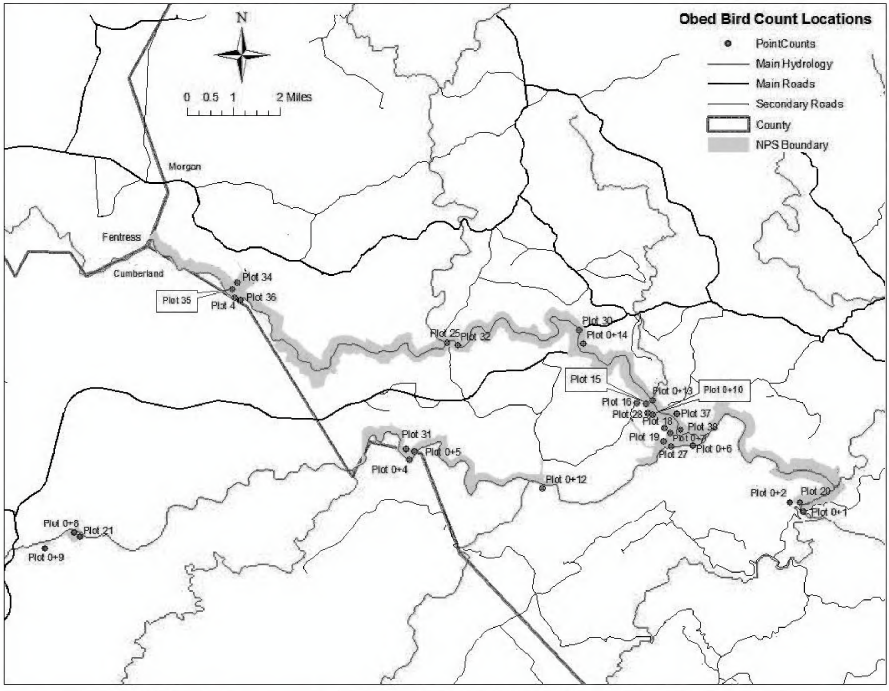


Figure 1. Map of the area including the Obed Wild and Scenic River, displaying locations of point count plots, as well as the linear nature of the park.

The rivers and creeks of the park are pool-drop in nature, situated in the bottoms of deep gorges, characterized by the presence of very large boulders and undercut ledges, set off by waterfalls that sometimes drop from the gorge rim, and distinctively marked by numerous difficult (Class III–IV) rapids. As a result of this combination of features, the park's designation as a "wild and scenic" river is truly accurate. Water level in these undammed waterways varies depending on rainfall from a slow trickle during most summer months to raging torrents during times of heavy rainfall (mainly during fall, winter, and spring) when the water level in the rivers may rise 8 m in a few hours.

The boundaries of the park are usually parallel to its rivers and seldom extend more than a few hundred meters from the rivers' edges, leaving little room for development of facilities, but in a few areas the park reaches 1.6 km in width. One such area is located at Lilly Bluff where a disability accessible boardwalk approaches a spectacular overlook

of the Clear Creek gorge and riverbed. Visitors can see, by viewing the rock layers of the gorge walls, how time, water, and weather have created the 150 m deep gorge through the Pennsylvanian sandstone caprock and Pennsylvanian shale beneath. The riverbed is littered with large, sometimes house-sized, sandstone boulders that contribute to the creation of many difficult rapids that are a significant feature of this river system.

Forest cover along the rivers of the OWRS has experienced logging in the past despite limited access into their gorges. However, logging in the park in the past did not eliminate all old trees: two cedars 800–900 years old have been located, while oaks in excess of 200 years old and hickories in excess of 300 years old have been found along Clear Creek. However, general forest clearing in the past left few areas of the park with extensive old-growth forest; the few pockets of such forest are mainly located on very steep, rocky terrain. Alder and river birch dominate riparian areas, and wherever a seep or stream converges at the riverside, dense vegetation is usually present. Various forest types occur along the upper gorge walls with hemlock and rhododendron dominant on the north and east slopes and with oaks, hickories, and cedars dominating on the hotter, drier sides of the canyons. The gorge rims are characterized by thin, sandy soils that create xeric conditions often harboring evergreen forests of various types and/or dense thickets of scrubby vegetation. Many pines along the rims were lost to damage from southern pine beetles (Dendroctonus frontalis) from 2000–2003, but a surprising number of pines escaped damage; in addition many sites damaged by beetles regenerated at an amazing rate, and during the inventory such areas often had a very dense thicket of pine cover 2–4 m in height.

There are no agricultural, wetland, or large grassland areas within the OWSR, and there is little scrub-shrub habitat. Park-like areas, widely-spaced trees with a grassy or otherwise open understory, have been created or maintained as picnic areas at four access points along Clear Creek and the Emory River. A primitive campground at Rock Creek and an unofficial primitive campsite at Barnett Bridge offer a little habitat diversity as well.

Some factors that inhibited the bird inventory of the park include the following:

- Very limited road access is available in the OWSR, requiring inventory efforts on foot in large parts of the park;
- Access to areas of the OWSR along the upper Obed River and Daddy's Creek is forbidden by hunting regulations in the Catoosa WMA during most week-ends and during some week days from October to January and from April through mid-May, and access is completely forbidden during nearly all of February and March, greatly limiting the gathering of bird data in about one-third of the park during those periods;
- Access via hiking is limited by very steep terrain at many sites, with bushwhacking a necessity to gain access to many sites because few trails exist along many stretches of the rivers of the park;
- Noise from rapids was often very loud during high-water conditions, limiting the ability to hear birds (less a problem during breeding season than other seasons, but still a problem);
- Access to the river by canoe was available (except in the Catoosa WMA as previously noted), but often not during the height of the breeding season when water level in

the rivers was too low to allow canoe entry; when water was available at this season, it was often too high to be canoed safely.

Access points to the rivers of the park are limited; we will discuss several of them, as follows: Lilly Bluff, the Devil's Breakfast Table, and Nemo.

The Lilly Bluff access point features an unusual sandstone bluff that harbors a few shallow pools and many endangered and unusual plants, including dwarf Virginia pines. It is a good place to find birds because the overlook allows good viewing opportunities to an area that is attractive to migrating birds, as well as to many species of breeding birds, depending on season; it is probably the best site in the park to watch for migrating raptors and Sandhill Cranes (during late fall and early winter). A number of hiking trails radiate from the Lilly Bluff area. Some are short, easy trails often used by rock-climbers. The longest is the 4 km Point Trail that leads out to the confluence of the Obed River and Clear Creek. The Point Trail passes through boulder fields, old forest, dry gorge rim, and rock house sites. During breeding season the area around the Point Trail is used by a variety of birds including many Neotropical migrants; this trail is one of the best places in the park to see Ruffed Grouse (all year) and groups of passerines (during migration seasons).

An access point to the part of the park known as the Devil's Breakfast Table (DBT) occurs on Daddy's Creek. Besides its river access, this site is also near access to the Cumberland Trail, which runs for 22 km from DBT to Nemo (see next paragraph), paralleling Daddy's Creek and the Obed River most of the way; there are numerous scenic overlooks of OWSR along marked side trails; a stretch (4 km) of the Cumberland Trail lies within the park, starting at Alley Ford on the Obed River and ending near Nemo. This section of the trail is the only section that is open when the Catoosa WMA is closed.

The Nemo area is located about 11 km from Wartburg and is one of the most visited sites within the park. It includes a major take-out for whitewater boaters, and it offers a large picnic area (with public swimming area). Located on the Emory River about 1.6 km downstream from the confluence of the Obed and Emory rivers, it also includes the Rock Creek primitive campground, as well as trailheads for several hiking trails and footpaths. The entire site can be quite attractive to birds year-round.

A few other access points to the park occur at bridges over the rivers and creeks; two of these where some birding can be undertaken are the Barnett access point and the Jett access point, both on Clear Creek.

Within the authorized boundaries, the OWSR shares a common boundary with the Catoosa Wildlife Management Area along most areas south of Clear Creek and on both sides of the Obed River and Daddy's Creek. Hunting and trapping are allowed on park property during scheduled hunts except in posted public areas. There is no access to the OWSR property from the Catoosa WMA during hunting periods including no use of the Cumberland Trail at these times (and there is no camping along the trail allowed at any time).

A considerable amount of private land borders the OWSR. In recent times, a landowner in the area, Bowater, has sold large tracts formerly dedicated to silviculture on the OWSR boundaries along Clear Creek and the Obed River. Eventually, development of this land may affect the wildlife of the park, including its birds, as a result of forest fragmentation or

large-scale clearing up to the park's boundary. Additionally, private property owners have impounded streams flowing into the OWSR watershed to create over 3000 ponds and some small lakes that likely have an effect on wildlife in the rivers, especially during periods of drought.

METHODS—BIRD INVENTORY TECHNIQUES

The five inventory techniques employed—point counts, migration walks, night surveys, raptor surveys, and general inventory work—were identical to the techniques used to inventory the avifauna of Stones River National Battlefield during the same years (Stedman and Stedman 2007); see that source for a description of the techniques. Thirty plots for conducting point counts were established in OWSR, and these were surveyed using the point count method during May–June 2004 and June 2005. Migration walks were conducted eight times during spring and 15 times during fall. Night surveys took place nine times during all seasons and raptor surveys two times during winter. General inventory effort was expended during nearly all dates (see Results) when the park was visited.

RESULTS

Total Species Inventoried

During the inventory period, July 2003 through November 2005, Barbara Stedman made visits to the park on a total of 66 days during all seasons (13 days during two spring seasons; 18 days during two summer seasons; 23 during three fall seasons; and 12 days during two winter seasons). In the course of these visits she observed 147 species (Table 1) by one or more of the methods described above; one additional species (Connecticut Warbler) was recorded by another observer (D. Trently) during the inventory period. An additional 14 species were recorded historically in the park, bringing the total park list of birds to 162 species (Table 1).

Breeding Species Inventoried

Evidence of breeding by species using the unit was divided into three categories: possible evidence; probable evidence; and confirmed evidence (cf. Nicholson 1997). In all, 85 species (Table 1) were placed in one of these categories, including 9 (11%) possible breeders, 22 (26%) probable breeders, and 54 (63%) confirmed breeders. Point counts were conducted during the breeding period of many species. A total of 64 species was registered by Barbara Stedman during 30 point counts conducted during 2003, while 72 species were detected by the same observer conducting the same point counts during 2004. In all, point count effort led to data for 76 species of birds (Table 2), all of which use the OWSR during the breeding season.

DISCUSSION

Each of the five survey techniques used for this inventory was effective for its purpose, but in terms of generating the largest number of species per unit of time expended, the general inventory was probably the most effective, followed by the migration walk and the point count (for breeding species only). Due to their restricted emphasis, night surveys and

raptor surveys generated fewer species per unit of time expended. The total of 148 species detected during the inventory period represents about 82% of the species that might be expected in this area, the bird list for the nearby but much larger Big South Fork National River and Recreation representing the best available list of expected species (Stedman and Stedman 2002).

Unexpected Results

Except for Wood Duck, few species of ducks have been recorded in the OWSR in the past, so migrant Buffleheads foraging on Clear Creek were a surprise during the spring of 2004.

During three seasons of the inventory, sightings of Bald Eagles took place in the OWSR, mainly along the lower Obed River and the Emory River. Since this species nests at nearby Watts Bar Lake, the sightings in the OWSR, a fairly new circumstance in the history of the park, suggest that the national bird may one day nest in the park; certainly habitat for nesting and food resources are present in the park.

A territorial Sharp-shinned Hawk at a nest near Lilly Bluff was unexpected but probably long overdue, given the large amount of good breeding habitat found in the park.

An adult Cooper's Hawk being chased by a fledgling Cooper's Hawk during the summer of 2005 provided an unexpected first summer and breeding record for the park.

Sightings of Merlin (during spring) and Peregrine Falcon (during fall) in the park during the course of the bird inventory were probably long overdue but nonetheless somewhat unexpected.

The first OWSR record for Barn Owl was unexpectedly made at the Norris Tract during the first winter of the inventory.

Quite unexpected was the Northern Saw-whet Owl found near Alley Ford during the second winter of the inventory. Barbara Stedman had played tapes of this owl's vocalizations about 100 times at a multitude of sites prior to eliciting a response from this owl, which was one of few saw-whet owls found on the Cumberland Plateau outside of the Big South Fork National River and Recreation Area.

Some scarce and somewhat unexpected migrant species that were recorded in the OWSR for the first time during the inventory were Least Flycatcher, Warbling Vireo, and Connecticut Warbler. An uncommon wintering species precluded from using the park because of its dependence on grassland and other open habitats was the American Pipit, recorded at least twice as a flyover during the inventory.

The Wood Thrush was determined to breed in the park in densities that were unexpectedly high, especially by comparison with densities experienced by Barbara Stedman in nearby areas outside the park; the highest densities were recorded in large hemlock thickets at riparian sites.

Swainson's Warblers were found to breed in relatively high density in the park, perhaps as much as, or slightly more than, one pair per 1.6 km of optimal habitat—mature rhododendron thickets often with other thick understory vegetation growing near large hemlocks in riparian areas along the rivers and creeks of the park. This density is probably higher than the density of this species anywhere else on the Cumberland Plateau; it probably equals or exceeds the density of this species in the eastern mountains of Tennessee; and it

possibly equals or exceeds the species' density at many sites in west Tennessee.

Bird Species Not Found

Despite much searching for an Osprey nest in the park during the inventory, no such nest could be found for the first time in several years, perhaps because the old nest tree near Submarine Falls on the Obed River died and fell just prior to the start of the inventory. During the first summer of the inventory, an adult Osprey acted territorially and remained just below Jett Bridge for several weeks during late spring before leaving the area.

Because the OWSR is a largely forested area, the Brown-headed Cowbird, a nest parasite, was found during breeding season in the park in quite small numbers (Table 2), indicating that it probably does not have much effect on the populations of Neotropical migrants that breed in the park. Similarly, the European Starling, an exotic species, was present in fairly small numbers and at very few sites in the park, indicating that it probably does not compete much for nest sites with other cavity-nesting species, especially woodpeckers, at the present time. No House Sparrows, another exotic species, were detected during the inventory.

Influence of Weather on Results

An effort was made to visit OWSR during periods when the weather was conducive for registering the maximum number of species during general inventory work, migration walks, point counts, night surveys, and raptor surveys, so the influence of weather on the results of the overall inventory was generally positive, but some caveats follow.

During the first spring and summer of the inventory period (March-June 2004) record rainfall and very high water in the entire river system took place. These conditions limited the ability to hear birdsong (at about 15 of the 30 plots for point counts); even at Lilly Bluff, sites 0.4 km (0.25 mi) from Clear Creek were too noisy to hear birds out to 100 m. Species nesting in riparian habitat were especially likely to be undercounted under these conditions.

The second spring and summer of the inventory also witnessed greater than normal rainfall, again affecting the ability to inventory birds effectively. Additionally, two wet growing seasons in a row caused vegetation growth to spurt, some pines growing 1.75 m in two seasons; such growth rates caused many shrub-scrub sites to outgrow that successional stage and become young forest quickly, reducing numbers of species dependent on early shrub-scrub stages of vegetation.

Fall weather during each year of the inventory was characterized by an absence of really strong cold fronts that are necessary to cause groups of passerines and raptors to "set down" and be easy to see and count.

Each winter of the inventory period was warmer than "average"; additionally, neither winter produced an irruption event of most boreal species; finally, the second winter of the inventory experienced a poor mast crop in the entire area around the OWSR. Each of these factors limited the presence of some species and lowered the numbers of those that were present. Little snow cover occurred during either winter of the inventory, but this factor probably aided the inventory effort.

RECOMMENDATIONS FOR MANAGEMENT AND PROTECTION OF SIGNIFICANT HABITATS

The Swainson's Warbler, a species of special concern, has apparently abandoned several former breeding sites in the park in recent years in response to human disturbances. These sites include Canoe Hole where local campers have removed rhododendron and other vegetation to make a larger camping area in a breeding site; below Barnett Bridge where removal of vegetation by campers and heavy ATV use have occurred within a breeding site; and at Rock Creek campground where heavy ATV use trampled much vegetation and created disturbances and where campers invaded a breeding site. We recommend that

- surveys for Swainson's Warblers be conducted at these sites in late April and early May each year; and that
- when Swainson's Warblers are found at these sites, signs be posted and, if necessary, barriers erected to prevent access to the breeding sites by ATVs and campers;

If removal of vegetation and access by ATVs can be prevented, these sites should once again become productive breeding sites for Swainson's Warblers. The case at Slant Rock above the Jett Bridge is instructive. There is heavy people use of that site, but it remained a breeding site of Swainson's Warblers during the bird inventory because no camping/vegetation clearing and no ATV use occurred at that site.

The Cerulean Warbler, another species of special concern, has been irregular in the OWSR in the past, with perhaps one singing male being detected on average each breeding season. This species prefers forested sites with an open understory and with hickory, tulip poplar, and walnut trees present; it often appears in the aftermath of wind-caused blowdowns and wildfires. Two sites in the OWSR where the species has been found in the past are the Rock Creek campground and south of the Point Trail at Lilly Bluff near the USGS marker. Cerulean Warblers sometimes use dry hillsides with pine cover; they were noted in this habitat at the Norris Tract during two recent years, but not during the inventory.

- We recommend an annual or at least bi-annual survey be conducted for Cerulean Warblers during late April and early May, to cover the sites noted above at least.

Wherever possible in the OWSR, we recommend maintenance of shrub-scrub habitat, which provides adult songbirds with a place to molt prior to migration; it also provides fledgling songbirds of many species, including forest interior species, with a place to forage and avoid predation.

- Anytime the park maintenance personnel can provide shrub-scrub habitat by letting wildfires burn, by bush-hogging sites about to grow into young forest, or by controlled burns, many bird species, including some such as Prairie Warbler that are decreasing continentally, and other forms of wildlife would benefit.
- Planting of native grasses, rather than exotic species like crown vetch, is recommended at any sites where erosion control is needed, including under bridges, such as at Nemo, and along roadsides.

ACKNOWLEDGMENTS

We thank Nancy Keohane, Resource Manager for the Obed Wild and Scenic River during the time of the bird inventory, for her continued interest in the project and her assistance in

accomplishing its goals. She gave of her time freely during many hours of discussion with Barbara H. Stedman, and she helped to overcome several minor problems encountered during the effort to inventory the birds of the park.

Park superintendent Phillip Campbell is appreciated for his general interest in seeing the bird inventory completed and the park bird list developed for the public. He has a good working familiarity with birds and wanted to know more about those in the park. He was eager to assist in making the bird inventory a success.

Chief Ranger Audie Critchley assisted Barbara Stedman by providing support during many river trips to conduct general inventory work during all seasons of the year. He was helpful by sharing sightings of birds as well.

Ranger Matt Hudson spent many hours in all seasons paddling the parks' rivers with Barbara Stedman. His interest and keen eyesight made the trips pass quickly and productively.

Barbara Stedman also wished to thank her other paddling buddies—Stephen Stedman, Bill and Will Hoagland, Kent Warren, Rick Boatman, and Roger McMillan—for accompanying her on many river trips in the OWRS over the years; these trips have helped to add much knowledge about the birds of the park.

We are greatly indebted to the staff of the Center for the Management, Utilization, and Protection of Water Resources at Tennessee Technological University for high quality management of the fiscal paperwork associated with this bird inventory. Director Dennis George, Sandra Pigg, Yvette Clark, Amy Knox and especially Glenda Sharks and Mary Williford, contributed much to our success.

Finally, we thank Robert Emmott and Nora Murdock, Appalachian Highlands Inventory and Monitoring Network, National Park Service, for their support during the time the inventory was conducted; the bird inventory was funded by an NPS grant (Tennessee Technological University contract # H5000030200). Patrick Flaherty (National Park Service) is also thanked for contributing the map used herein (Figure 1).

For providing a thoughtful review of this manuscript Edmund K. LeGrand is accorded sincerest thanks by the junior author.

LITERATURE CITED

Nicholson CP. 1997. Atlas of the Breeding Birds of Tennessee. Knoxville (TN): University of Tennessee Press.

Stedman BH, Stedman SJ. 2007. Bird Inventory at Stones River National Battlefield, 2003–2005. The Migrant 78(2): 45–57.

Stedman SJ, Stedman BH. 2002. Notes on the Birds of the Big South Fork National River and Recreation Area and Obed National Wild and Scenic River. Cookeville (TN): Privately printed. 146 + viii pp.

Table 1. Species, status, and seasonal abundance of birds observed at Obed Wild and Scenic River; species names in lightface type were not recorded during the inventory but are known to have occurred in the park in the past. Key to abbreviations and symbols: *—possible breeding evidence noted; **—probable breeding evidence noted; ***—confirmed breeding evidence noted; PR—permanent resident; SR—summer resident; TR—transient; VR—visitor; UN—Unknown; WR—winter resident; C—common; FC—fairly common; U—uncommon; VU—very uncommon; R—rare.

Common Name	**Scientific Name**	**Status**	**Sp**	**Su**	**F**	**Wi**
Canada Goose	*Branta canadensis*	PR**	U	VU	VU	VU
Wood Duck	*Aix sponsa*	PR***	U	U	VU	U
American Black Duck	*Anas rubripes*	TR	R			
Mallard	*Anas brachyrhynchos*	PR	VU	R	R	
Blue-winged Teal	*Anas discors*	TR	R			
Northern Shoveler	*Anas clypeata*	TR	R			
Green-winged Teal	*Anas crecca*	TR	R			
Bufflehead	*Bucephala albeola*	TR	R			
Hooded Merganser	*Lophodytes cucullatus*	TR	R			R
Northern Bobwhite	*Colinus virginianus*	PR*	VU	VU	R	
Ruffed Grouse	*Bonasa umbellus*	PR***	VU	VU	VU	VU
Wild Turkey	*Meleagris gallopavo*	PR***	U	U	U	U
Great Blue Heron	*Ardea herodias*	PR***	U	U	U	U
Green Heron	*Butorides virescens*	SR**	VU	R	VU	
Black Vulture	*Coragyps atratus*	PR**	FC	U	U	FC
Turkey Vulture	*Cathartes aura*	PR**	FC	U	FC	FC
Osprey	*Pandion haliaetus*	VR***	VU	VU	VU	
Bald Eagle	*Haliaeetus leucocephalus*	TR		R	R	R
Northern Harrier	*Circus cyanea*	TR			R	
Sharp-shinned Hawk	*Accipiter striatus*	PR***	U	VU	VU	VU
Cooper's Hawk	*Accipiter cooperi*	VR**	VU	R	VU	VU
Red-shouldered Hawk	*Buteo lineatus*	PR***	U	U	U	U
Broad-winged Hawk	*Buteo platypterus*	SR***	U	U	U	
Red-tailed Hawk	*Buteo jamaicensis*	PR*	U	U	U	U
American Coot	*Fulica americana*	TR	R			
Sandhill Crane	*Grus canadensis*	TR			VU	VU
Killdeer	*Charadrius vociferus*	VR			VU	VU
Spotted Sandpiper	*Actitis macularius*	TR	VU	VU	VU	
American Woodcock	*Scolopax minor*	PR***	VU	VU	VU	VU
Rock Pigeon	*Columba livia*	PR***	VU	VU	VU	VU
Mourning Dove	*Zenaida macroura*	PR***	FC	FC	FC	FC
Black-billed Cuckoo	*Coccyzus erythropthalmus*	TR		R		
Yellow-billed Cuckoo	*Coccyzus americanus*	SR***	VU	U	VU	
Barn Owl	*Tyto alba*	VR				R
Eastern Screech-Owl	*Megascops asio*	PR***	U	U	U	U
Great Horned Owl	*Bubo virginianus*	PR**	U	U	U	U

Common Name	Scientific Name	Status	Sp	Su	F	Wi
Barred Owl	*Strix varia*	PR***	U	U	U	U
Northern Saw-whet Owl	*Aegolius acadicus*	VR				R
Common Nighthawk	*Chordeiles minor*	TR		R	U	
Chuck-will's-widow	*Antrostoma carolinensis*	SR*	VU	VU		
Eastern Whip-poor-will	*Antrostoma vociferus*	SR**	U	U	VU	
Chimney Swift	*Chaetura pelagica*	SR*	U	U	U	
Ruby-throated Hummingbird	*Archilochus colubris*	SR**	U	U	U	
Belted Kingfisher	*Ceryle alcyon*	PR**	U	U	U	U
Red-headed Woodpecker	*Melanerpes erythrocephalus*	PR*	VU	R	VU	
Red-bellied Woodpecker	*Melanerpes carolinus*	PR***	U	U	U	U
Yellow-bellied Sapsucker	*Sphyrapicus varius*	WR	VU		U	U
Downy Woodpecker	*Picoides pubescens*	PR***	FC	U	FC	FC
Hairy Woodpecker	*Picoides villosus*	PR***	U	U	U	U
Northern Flicker	*Colaptes auratus*	PR***	U	U	U	U
Pileated Woodpecker	*Dryocopus pileatus*	PR***	FC	U	FC	FC
American Kestrel	*Falco sparverius*	UN	R	R	VU	R
Merlin	*Falco columbarius*	TR	R			
Peregrine Falcon	*Falco peregrinus*	TR			R	
Eastern Wood-Pewee	*Contopus virens*	SR**	U	U	U	
Acadian Flycatcher	*Empidonax virescens*	SR**	U	U	VU	
Least Flycatcher	*Empidonax minimus*	TR	R			
Eastern Phoebe	*Sayornis phoebe*	PR***	FC	FC	FC	U
Great Crested Flycatcher	*Myiarchus crinitus*	SR**	U	U	U	
Eastern Kingbird	*Tyrannus tyrannus*	TR		R	R	
White-eyed Vireo	*Vireo griseus*	SR**	FC	FC	FC	
Yellow-throated Vireo	*Vireo flavifrons*	SR**	FC	FC	FC	
Blue-headed Vireo	*Vireo solitarius*	SR***	C	C	C	R
Warbling Vireo	*Vireo gilvus*	TR			R	
Philadelphia Vireo	*Vireo philadelphicus*	TR			R	
Red-eyed Vireo	*Vireo olivaceous*	SR***	C	C	U	
Blue Jay	*Cyanocitta cristata*	PR***	FC	FC	C	FC
American Crow	*Corvus brachyrhynchos*	PR***	C	C	C	C
Horned Lark	*Eremophila alpestris*	VR	R		R	
Purple Martin	*Progne subis*	VR	VU	VU		
Tree Swallow	*Tachycineta bicolor*	SR***	R	VU		
N. Rough-winged Swallow	*Stelgidopteryx serripennis*	SR***	U	U	VU	
Bank Swallow	*Riparia riparia*	TR	R			
Barn Swallow	*Hirundo rustica*	SR***	VU	R	VU	
Carolina Chickadee	*Poecile carolinensis*	PR***	FC	FC	FC	FC
Tufted Titmouse	*Baeolophus bicolor*	PR***	FC	FC	FC	FC
Red-breasted Nuthatch	*Sitta canadensis*	WR	VU	R	VU	U
White-breasted Nuthatch	*Sitta carolinensis*	PR***	FC	FC	FC	FC
Brown Creeper	*Certhia americana*	WR	VU		U	U

Common Name	Scientific Name	Status	Sp	Su	F	Wi
House Wren	*Troglodytes aedon*	TR	VU		VU	
Winter Wren	*Troglodytes troglodytes*	WR	VU		VU	U
Carolina Wren	*Thryothorus ludovicianus*	PR***	FC	FC	FC	FC
Golden-crowned Kinglet	*Regulus satrapa*	WR	U		U	FC
Ruby-crowned Kinglet	*Regulus calendula*	WR	U		U	U
Blue-gray Gnatcatcher	*Polioptila caerulea*	SR***	FC	C	U	
Eastern Bluebird	*Sialia sialis*	PR***	U	U	U	U
Veery	*Catharus fuscescens*	TR	R		VU	
Gray-cheeked Thrush	*Catharus minimus*	TR			R	
Swainson's Thrush	*Catharus ustulatus*	TR	U		U	
Hermit Thrush	*Catharus guttatus*	WR	VU		U	U
Wood Thrush	*Hylocichla mustelina*	SR***	U	FC	U	
American Robin	*Turdus migratorius*	PR**	U	U	FC	U
Gray Catbird	*Dumetella carolinensis*	SR***	U	R	U	
Brown Thrasher	*Toxostoma rufum*	PR***	U	U	U	VU
Northern Mockingbird	*Mimus polyglottus*	VR		R	R	
European Starling	*Sturnus vulgaris*	PR*	VU	U	FC	U
American Pipit	*Anthus rubescens*	VR				R
Cedar Waxwing	*Bombycilla cedrorum*	PR***	VU	R	VU	VU
Ovenbird	*Seiurus aurocapillus*	SR***	FC	FC	U	
Worm-eating Warbler	*Helmitheros vermivorum*	SR***	FC	FC	U	
Louisiana Waterthrush	*Parkesia motacilla*	SR***	FC	FC	VU	
Northern Waterthrush	*Parkesia novaboracensis*	TR	VU			
Golden-winged Warbler	*Vermivora chrysoptera*	TR			R	
Blue-winged Warbler	*Vermivora pinus*	TR	VU		VU	
Black-and-white Warbler	*Mniotilta varia*	SR***	FC	FC	U	
Swainson's Warbler	*Limnothlypis swainsonii*	SR***	U	U		
Tennessee Warbler	*Oreothlypis peregrina*	TR	VU		U	
Orange-crowned Warbler	*Oreothlypis celata*	TR			R	
Connecticut Warbler	*Oporornis agilis*	TR	R			
Kentucky Warbler	*Geothlypis formosus*	SR***	U	U	VU	
Common Yellowthroat	*Geothlypis trichas*	SR**	U	U	U	
Hooded Warbler	*Setophaga citrina*	SR***	FC	FC	FC	
American Redstart	*Setophaga ruticilla*	TR	U		U	
Cape May Warbler	*Setophaga tigrina*	TR	VU		R	
Cerulean Warbler	*Setophaga cerulea*	SR***	R	R		
Northern Parula	*Setophaga americana*	SR***	U	U	VU	
Magnolia Warbler	*Setophaga magnolia*	TR	U		U	
Bay-breasted Warbler	*Setophaga castanea*	TR	VU		U	
Blackburnian Warbler	*Setophaga fusca*	TR	VU		U	
Yellow Warbler	*Setophaga petechia*	TR	VU			
Chestnut-sided Warbler	*Setophaga pensylvanica*	TR	U		U	
Blackpoll Warbler	*Setophaga striata*	TR	VU			

Common Name	Scientific Name	Status	Sp	Su	F	Wi
Black-throated Blue Warbler	*Setophaga caerulescens*	TR	R			
Palm Warbler	*Setophaga palmarum*	TR	VU		U	
Pine Warbler	*Setophaga pinus*	PR***	U	U	U	R
Yellow-rumped Warbler	*Setophaga coronata*	WR	U		FC	FC
Yellow-throated Warble	*Setophaga dominica*	SR**	U	U	U	
Prairie Warbler	*Setophaga discolor*	SR**	U	U	U	
Black-thr. Green Warbler	*Setophaga virens*	SR***	U	U	U	
Canada Warbler	*Cardellina canadensis*	TR			VU	
Wilson's Warbler	*Cardellina pusilla*	TR			R	
Yellow-breasted Chat	*Icteria virens*	SR**	U	U	VU	
Eastern Towhee	*Pipilo erythrophthalmus*	PR***	FC	FC	FC	U
Chipping Sparrow	*Spizella passerina*	SR***	U	U	U	
Field Sparrow	*Spizella pusilla*	PR**	U	U	U	VU
Savannah Sparrow	*Passerculus sandwichensis*	TR			R	
Fox Sparrow	*Passerella iliaca*	WR	VU		VU	U
Song Sparrow	*Melospiza melodia*	PR**	VU	VU	U	U
Lincoln's Sparrow	*Melospiza lincolnii*	TR	R			
Swamp Sparrow	*Melospiza georgiana*	WR	VU		VU	VU
White-throated Sparrow	*Zonotrichia albicollis*	WR	U		R	FC
White-crowned Sparrow	*Zonotrichia leucophrys*	WR			R	
Dark-eyed Junco	*Junco hyemalis*	WR	U		U	C
Summer Tanager	*Piranga rubra*	SR**	U	U	U	
Scarlet Tanager	*Piranga olivacea*	SR***	FC	FC	U	
Northern Cardinal	*Cardinalis cardinalis*	PR***	C	C	C	C
Rose-breasted Grosbeak	*Pheucticus ludovicianus*	TR	U		U	
Blue Grosbeak	*Passerina caerulea*	SR*	R	R	R	
Indigo Bunting	*Passerina cyanea*	SR***	FC	C	U	
Red-winged Blackbird	*Agelaius phoeniceus*	VR	R		VU	
Eastern Meadowlark	*Sturnella magna*	VR	R	R	VU	R
Common Grackle	*Quiscalus quiscula*	PR*	VU	U	FC	VU
Brown-headed Cowbird	*Molothrus ater*	PR*	VU	U		R
Orchard Oriole	*Icterus spurius*	TR			R	
Baltimore Oriole	*Icterus galbula*	TR	R			
House Finch	*Haemorhous mexicanus*	PR*	VU	VU	VU	VU
Purple Finch	*Haemorhous purpureus*	WR	VU		VU	VU
Pine Siskin	*Spinus pinus*	VR	R		VU	VU
American Goldfinch	*Spinus tristis*	PR***	U	U	FC	U

Table 2. Summary of results for 76 species observed on point counts conducted at 30 stops (10 minutes each) in the Obed Wild and Scenic River during the breeding seasons of 2004 and 2005. Inds—Individuals.

	2004		2005	
	Stops	Inds	Stops	Inds
Species				
Canada Goose	0	0	2	14
Wood Duck	1	1	1	1
Northern Bobwhite	1	1	2	2
Ruffed Grouse	0	0	1	2
Wild Turkey	1	1	2	2
Great Blue Heron	0	0	2	2
Turkey Vulture	2	3	3	19
Osprey	1	1	0	0
Sharp-shinned Hawk	1	1	1	1
Cooper's Hawk	0	0	1	1
Red-shouldered Hawk	3	3	2	2
Broad-winged Hawk	1	1	3	3
Red-tailed Hawk	1	1	0	0
American Woodcock	0	0	1	1
Rock Pigeon	0	0	1	2
Mourning Dove	15	39	15	41
Yellow-billed Cuckoo	6	6	11	14
Chuck-will's-widow	0	0	1	1
Eastern Whip-poor-will	0	0	1	1
Chimney Swift	0	0	1	2
Ruby-throated Hummingbird	2	2	3	3
Belted Kingfisher	4	4	7	7
Red-bellied Woodpecker	1	2	10	13
Downy Woodpecker	9	17	4	4
Hairy Woodpecker	8	15	6	8
Northern Flicker	3	4	5	8
Pileated Woodpecker	13	17	10	18
Eastern Wood-Pewee	4	4	2	2
Acadian Flycatcher	14	35	16	28
Eastern Phoebe	12	15	9	11
Great Crested Flycatcher	1	1	2	2
White-eyed Vireo	6	9	8	15
Yellow-throated Vireo	3	3	7	7
Blue-headed Vireo	19	40	23	51
Red-eyed Vireo	30	89	28	67
Blue Jay	17	38	19	37
American Crow	12	38	20	60

	2004		2005	
	Stops	Inds	Stops	Inds
Purple Martin	1	2	1	1
Tree Swallow	1	1	0	0
N. Rough-winged Swallow	5	10	4	13
Carolina Chickadee	15	32	17	32
Tufted Titmouse	16	32	19	33
White-breasted Nuthatch	12	24	8	16
Carolina Wren	21	68	24	59
Blue-gray Gnatcatcher	5	9	7	11
Eastern Bluebird	2	2	1	1
Wood Thrush	19	33	24	39
American Robin	2	2	2	3
Gray Catbird	1	2	1	1
Brown Thrasher	4	6	3	3
European Starling	1	16	1	7
Ovenbird	14	27	17	27
Worm-eating Warbler	13	16	12	16
Louisiana Waterthrush	11	17	11	17
Black-and-white Warbler	15	23	10	12
Swainson's Warbler	2	2	3	3
Kentucky Warbler	1	2	3	6
Common Yellowthroat	2	2	0	0
Hooded Warbler	24	50	25	43
Northern Parula	9	11	9	10
Pine Warbler	8	11	6	11
Yellow-throated Warbler	12	15	11	14
Black-throated Green Warbler	11	18	13	14
Prairie Warbler	2	2	1	1
Yellow-breasted Chat	3	4	2	4
Eastern Towhee	9	14	6	17
Chipping Sparrow	2	4	2	4
Song Sparrow	0	0	2	2
Summer Tanager	2	2	1	2
Scarlet Tanager	26	53	22	37
Northern Cardinal	19	53	23	67
Indigo Bunting	18	46	14	35
Red-winged Blackbird	0	0	1	1
Common Grackle	0	0	1	2
Brown-headed Cowbird	3	8	1	1
American Goldfinch	3	8	4	8
Total Species		64		72

Accepted 6 August 2014

MINUTES OF THE TOS 2013 SPRING BOARD OF DIRECTORS MEETING

27 April 2013
Knoxville, Tennessee

The Annual Spring meeting of the Tennessee Ornithological Society (TOS) was held 26-28 April 2013. The Knoxville Chapter hosted the meeting at the Knoxville Zoo. Field trips were offered to Sharp's Ridge, The Great Smokey Mountain National Park, Cove Lake and Cross Mountain, Norris Dam, Eagle Bend Fish Hatchery and Oak Ridge. The Board of Director's Meeting was called to order at 2:12 pm on 27 April 2013 by President Dick Preston. Secretary CyndiRoutledge reported and verified that a quorum was present. A motion was made to accept the minutes of the Fall meeting as presented; it passed unanimously.

REPORTS OF OFFICERS AND DIRECTORS AT LARGE

PRESIDENT: Dick Preston announced the following appointments: Susan Hollyday will serve as the Finance Committee Chair; Danny Gaddy and Jean Alexander will serve on the Finance Committee; Dick Preston will serve as Co-Chair on the Conversation Policy Committee. Dick Preston also thanked departing members Ron Hoff (Finance Committee), Gregg Elliott and Bill Franks (Conservation Policy Committee) for their contributions.

DIRECTORS-AT-LARGE: Steven Routledge reported Daniel Moss will be the new Director at Large for Middle Tennessee.

TREASURER: Mac McWhirter was not in attendance but sent the following report: The Society remains in excellent financial condition after a strong financial 2012. The revenues for the year were $38,266 against expenses of $9,263, yielding a year-end surplus of $29,003. This performance can be attributed primarily to strong investment performance of the funds under Vanguard that provided investment income and gains of $26,059, and also because certain expenses have not been incurred. No research grants were awarded during 2012, and only one issue of *The Migrant* was published during the past year. On the balance side, investments remain equally weighted between equities and bonds, and the investment fund had a fair market value of $262,354 on 31 December 2012. As of 1 April 2013 these investments had grown to approximately $278,000. On the liability side of the balance sheet, eight back issues of *The Migrant* remain unpublished, and a liability for the cost of the issues is estimated to be $18,000.

Membership totals now stand at 650 for regular dues-paying members and 23 for institutions and libraries subscribing to *The Migrant*. Two anomalies that are evident in the report concern the Greeneville and Columbia chapters. Greeneville has been through a yearlong process, and the chapter appears to be dissolving due to low membership and infrequent activities. Most members have responded to the At-Large membership letter and are enrolled in 2013. In Columbia, the past Treasurer moved out of town in 2012 without notifying anyone in the chapter. Eventually after repeated attempts to contact her last year, another member acquired the bank account access and said member states the chapter will continue in the future. Most members have enrolled as At-Large members in 2013 after

being sent the state membership letter. In 2014 the chapter is expected to resume in its active role as a membership entity.

COMMITTEE REPORTS

CURATOR: Chuck Nicholson was present and asked that all chapters submit updates of elected Officers and their contact information for the website.

THE MIGRANT : Editor David Aborn was not present, but President Dick Preston reported that one double-issue will be published in the upcoming months.

THE TENNESSEE WARBLER: Editor Theresa Graham was present and announced the next deadline for submissions for the newsletter is 30 June 2013.

TENNESSEE BIRD RECORDS: Kevin Calhoon was not present but submitted the following report – After extensive research and consideration the committee voted 5-1 that a captive origin of the Hooded Crane seen at Hiwassee Refuge in Meigs County, TN from 13 December 2011 to January 2012 was unlikely. The record was accepted as a wild bird and will be added to the Official List of Tennessee Birds. Kevin Calhoon expressed his thanks to everyone who submitted documentation and reports that the Committee is somewhat backlogged but is working hard to get caught up. Also accepted were Swallow-tailed Kite-Sequatchie County, 15 August 2010, submitted by Shane Williams; Ash-throated Flycatcher-Franklin County, 14 November 2009, submitted by Ed LeGrand; Northern Goshawk-Davidson County, 21 February 2011, submitted by Tony Lance; Vermillion Flycatcher-Hardin County, 30 December 2009, submitted by Bill Pulliam; California Gull-Marion County, 29 March 2009, submitted by Tommie Rogers; Bell's Vireo-Lake-County, 19 May 2010, submitted by Scott Somershoe.

CONSERVATION POLICY COMMITTEE: Melinda Welton was present and reported on the 2013 Sandhill Crane Festival. She, Cyndi Routledge and Dan Hicks of the Tennessee Wildlife Resources Agency served as chairs of the Festival. TOS signed on with the American Bird Conservancy on the petition for denial of the 30 year exemption for incidental deaths by wind companies.

CONSERVATION AND RESEARCH FUNDING COMMITTEE: New Committee chair Dr. Michael Collins was not present, but sent the following report: All information on the procedure for obtaining grants and awards is listed on the TOS website. In the past a call for these grants has occurred once a year, and now the Committee will be doing a twice-a-year call. Three awards were funded this year for a total of $3100. Alix Matthews of Rhodes College was awarded $2200 to study the "Effects of haemosporidian parasites and host immune defenses on abundance in a local community of birds in eastern Tennessee and at a regional scale." The second grant went to Stephen Ferguson of the University of Memphis; he was awarded $600 to study "Hormonal regulation of a female-specific vocalization in Blue Jays." The final award in the amount of $300 went to Katrina Moeller at the University of Tennessee at Martin to study "Seasonal variation in the number and types of vocalizations uttered and responsiveness to playback of aural stimuli by Barred Owls in the area surrounding Reelfoot Lake, Tennessee."

FINANCE: Susan Hollyday, Chair, thanked the members of the committee for their work. An audit is scheduled for later this year.

OLD BUSINESS

Billie Cantwell presented an update on the *Discover Birds Activity* book and how it is being used in Knoxville's pilot program. Cyndi Routledge reported that all 1000 books have been distributed and are being used for outreach programs, Cyndi Routledge made a formal request to have the *Discover Birds Activity* books reprinted. Chuck Nicholson asked that a financial disclosure of the income and expenses specific to the book be included in the Society's financial report. A motion was made to print 2000 books; it passed unanimously.

The 2013 Fall TOS meeting will be held in Clarksville, TN on 27 - 29 September. Steve and Cyndi Routledge, Polly Rooker, Barbara Wilbur and Suva Batson will be coordinating this event. The local Warioto Audubon Chapter agreed to host the Friday night reception. The host hotel will be The Country Inns and Suites in Clarksville, TN. Field trips will be announced in the coming months.

The 2014 Annual Spring meeting will be held in Chattanooga, TN. Details will be forthcoming.

The 2015 Spring Annual meeting/100TH Year Anniversary Celebration will be held at Montgomery Bell State Park 30 April – 3 May 2015. Susan Hollyday is establishing a network of contacts with other Chapters for a yearlong celebration across the State to mark the 100th Anniversary. Richard Conners is coordinating a statewide bird walk with Tennessee State Parks.

Tony King gave an update on Operation Migration for Whooping Cranes. Sponsorship remains at $200 per mile. Tony challenged each chapter or individual to support Operation Migration. A motion for TOS to contribute $200 to purchase a mile for Operation Migration it passed unanimously. Melinda Welton made a motion to match the $200 with a donation to the International Crane Foundation it passed unanimously.

NEW BUSINESS

Elections will be held at the Annual Meeting after the dinner this evening. The Slate will be presented at that time.

Sandhill Crane Award Fund – Five Sandhill Cranes were shot in Dayton, TN the day before the 2013 TN Sandhill Crane Festival. Tennessee Wildlife Resources Agency (TWRA) established a reward fund, and the TOS Executive Committee convened and voted to pledge $1000 to the fund for the arrest and conviction of the shooter(s). The money is being held in the TOS treasury.

In March of 2013 TOS sent a letter of support to the Tennessee Wildlife Resources Agency for the purchase of 800 acres to Rankin Bottoms in Cocke County.

ADDITIONAL ANNOUNCEMENTS

Eric Rosenthal, a 13 year old Memphis Chapter member, won the Junior Duck Stamp competition for his age group from Tennessee. He will now compete at the national level.

TOS bumper stickers are available from Bill Colvard, 6932 Sandy Cove Rd., Harrison, TN

37341. He produced these at his own expense.

The meeting adjourned at 3:30 pm.

TENNESSEE ORNITHOLOGICAL SOCIETY ANNUAL BUSINESS MEETING

The TOS Annual Business Meeting was held in the meeting room at the Knoxville Zoo in Knoxville, Tennessee; President Dick Preston called the meeting to order at 5:45 pm. He welcomed everyone and thanked the Knoxville Chapter for organizing the successful weekend.

Melinda Welton presented a gift of a porcelain hummingbird to Theresa Graham in recognition of her outstanding work as editor of our newsletter, *The Tennessee Warbler*.

Susan Hollyday gave the financial report on behalf of Mac McWhirter to the membership.

Dick Preston presented a recap of the actions taken at the Board of Director's meeting, and announced that the 2013 Fall Meeting will be held 27 – 29 September in Clarksville, Tennessee.

ELECTION OF OFFICERS

Slate of Officers for 2013-2015:

President-elect Ron Hoff

Vice Presidents – Van Harris (west); Danny Shelton (middle)

Secretary – Cyndi Routledge

Treasurer – Mac McWhirter

Curator – Chuck Nicholson

President Dick Preston called for nominations from the floor; there were none.

A motion was made that the nominated slate be accepted as presented and it passed unanimously.

The 2013 Distinguished Service Award was presented to Rick Knight and Dick Preston, who were recognized for their years of service to TOS. The meeting was adjourned at 6:10pm..

PRESENTATION OF THE SPEAKER – President Ron Hoff introduced the evening's speaker, Dr. James Tucker, PH.D, Founder of the American Birding Association and professor of Educational Psychology at the University of Tennessee at Chattanooga. Dr. Tucker presented "The Ology of Bird Watching".

Respectfully submitted,

Cyndi Routledge, Secretary_

THE 2013 DISTINGUISHED SERVICE AWARDS PRESENTED TO RICHARD D. PRESTON AND RICHARD L. KNIGHT

RICHARD L. KNIGHT

Wallace Coffey
Johnson City, Tennessee

Richard L. "Rick" Knight is revered among an elite group of Tennessee birders for his knowledge of bird distribution and species status in the state. His published papers and editorship of TOS publications and bird records has had a resounding impact on Tennessee Ornithology.

Rick is a member of the Lee and Lois Herndon Chapter at Elizabethton, which he joined in 1977, and the Bristol Bird Club. He grew up in Washington County and lives in Johnson City. As a leader in the Herndon Chapter he has served as President, Vice-President, Secretary and Statistician.

At the state level he has served as Vice-President for East Tennessee and as a member of the Nominating Committee and the Conservation and Research Funding Committee. He was part of the original committee to form the Tennessee Bird Records Committee and served several terms as a member of that committee. Rick was also a major contributor to the Breeding Bird Atlas Project and served as regional coordinator for northeast Tennessee. He was State Count Compiler from 1982 through 1986.

Rick has authored or co-authored more than thirty notes and articles for The Migrant. He has served as a Regional Compiler (Cumberland Plateau/Ridge and Valley Region) since 1986 and has been editor of The Season since 1996.

In 1994 Rick authored the book The Birds of Northeast Tennessee - An Annotated Check-list for Carter, Johnson, Sullivan, Washington and Unicoi counties. In 2008 he authored a second edition of the book. Both were published and funded by Bristol Bird Club.

For his distinguished service to the Tennessee Ornithological Society for nearly four decades, we present to him the Distinguished Service Award.

Rick Knight with State President Ron Hoff

RICHARD D. PRESTON

Jim Ferguson
Memphis, Tennessee

From time to time, a Chapter of the Tennessee Ornithological Society may be fortunate to have a real "sparkplug" join their group – a member who willingly serves in any capacity when asked, takes the initiative to energize the group, and volunteers within and beyond the Chapter to advance the mission of the TOS. Memphis and the Society are fortunate to have such an activist in Richard D. "Dick" Preston.

Dick came to birding by way of the Boy Scouts and maintained his interest throughout a twenty-seven year career in the Marine Corps. His military service brought him to Memphis Naval Air Station and to the Memphis Chapter in 1989. That same year he became a Life Member of TOS. Although he left Memphis briefly to serve at another installation, he had decided to retire to the Memphis area. His parents, Don and Dorothy Preston, later moved here, and also were active members of the Chapter.

The Marine Corps provided excellent opportunities for travel before his retirement in 1994. Dick has since continued birding around the world, having visited 54 countries in his quest for a life list of 7,500 species. His travels and adventures, his ability to persuade fellow travelers to share their photos, and his gift of gab make him a program chairman's dream. Aside from his own personal goals, Dick has given freely of himself to the Chapter and the Society.

Dick served as Chapter President 1997 to 1999, and again in 2009 to 2010. Other MTOS offices include Vice-President, Local and State Director, Curator, Slide Librarian and Committee Chairperson for Conservation, Hikes, and Programs.

For 12 years Dick has used his excellent skills at song and sight identification to lead mid-week hikes at Shelby Forest during Spring and Fall migration for old and new birders to sharpen their birding knowledge. After bringing order out of chaos to the MTOS slide collection, he has often used it in over 200 presentations to garden clubs, church organizations, scouts, young people and to anyone he deems a potential convert to birding or conservation. He has represented the Chapter at Earth Day events at Lichterman Nature Center.

At the state level, he completed two terms as President, served six years as Vice-President, six years on the Bird Records Committee, four years on the Conservation Policy Committee, and, since Winter 2007-2008, as the West Tennessee Regional Compiler for The Migrant.

Dick was involved in the Point Counts made in the 1980's and the Atlasing projects of Tennessee and Mississippi. Dick has participated in 150 Christmas counts (90 of these in Tennessee) and annually runs three breeding bird survey routes. He established the Wapanocca National Wildlife Refuge Christmas Bird Count in Arkansas which spans the Mississippi River to include Shelby Forest State Park and Eagle Lake Wildlife Management Area in Tennessee.

Beyond the Society, Dick is West Tennessee reviewer for ebird and for the Great Backyard Bird Count. He is an active supporter of the Strawberry Plains Audubon Center in Holly

Springs, Mississippi, and has taught a Continuing Education Class in Ornithology at Rhodes College. Dick is a member of numerous birding and conservation organizations, keeping abreast of issues of local, state and national concern. As a used car salesman Dick would have gone far – he has sold 244 Duck stamps in the last five years.

Dick Preston's service to the Chapter, the Society and the larger community all makes him a deserving recipient of the Distinguished Service Award.

Dick Preston with
State President Ron Hoff

2013 TOS TRADITIONAL SPRING COUNTS

Ron Hoff,
TOS State Compiler
282 Hackworth Lane, Clinton, TN 37716

This report summarizes the traditional Spring Bird Counts that are run typically on dates other than the North American Migration Count date which is always the second Saturday in May. These counts sometimes cover more than one county and more than one day. This year 132 observers recorded 197 species. The species total was below the recent average of 203. Two counts had rain, and temperatures ranged from a chilly 29° F for the Highland Rim count to a pleasant 67° F in Knoxville.

Count Summaries

F/Y = feeder or yard watcher

Cumberland County - 20 April; 0400-2030. Weather: clear; wind NNW 0-14 mph; 29-56° F. Observers: Bruce F. Anderson, Nan E. Beesley, Janet Dowlen, Douglas A. Downs, Annell S. Fields, Edmund K. LeGrand (compiler: 1631 Leffle Webb Road., Crossville, TN 38572; elegrand@frontiernet.net), Michael P. O'Rourke, Thomas M. Saya, Stephen J. Stedman and Winston A. Walden.

Elizabethton – 27 April; 0345-1930. Weather: showers; wind; 42-60° F. The count area includes Carter County plus parts of adjacent Johnson, Sullivan, Unicoi and Washington counties. Observers: Fred Alsop, Darla Anderson, James Anderson, Jim D. Anderson, Emily Bayes, Paul Bayes, Jerry Bevins, Rob Biller, Marie Bradford, Kevin Brooks, Craig Carter, Juanita Davis, Gilbert Derouen, Dianne Draper, Glen Eller, Harry Lee Farthing, Zack Garrett, Don Holt, Everett Honaker, Reese Jamerson, Barney Keffer, Rick Knight (non-participating compiler: 804 N. Hills Dr., Johnson City, TN 37604; rknight8@earthlink.net), Roy Knispel, Roger Lemaster, Richard Lewis, April Mattes, Larry McDaniel, Joe McGuiness, Tom McNeil, Charles Moore, Cathy Myers (F/Y), Kathy Noblet, Rick Phillips, Brookie Potter, Jean Potter, Nora Schubert, Michele Sparks, Bryan Stevens, Peggy Stevens (F/Y), Kim Stroud, David Thometz (F/Y), Gary Wallace and Mary Anna Wheat.

Knoxville – 21 April; 0600-1845; 2100-2115. Weather: mostly cloudy; wind NE 0-10 mph; 41-67° F. Observers: Jean Alexander, John Alexander, Mark Armstrong, Preston Beets, Frank Bills, Sharon Bostick, Howard Chitwood, Gail Clendenen, Steve Clendenen, Peter Copabianco, Michael Crouse, Milas Crouse, K. Dean Edwards (compiler: 1615 Meadow Chase Lane, Knoxville, TN 37931; kde@angst.engr.utk.edu), Chuck Estes, Lola Estes, Carole Gobert, Paul Hartigan, Ron Hoff, Angela Hoffman, Tom Howe, Susan Hoyle, Jim Human, David Johnson, Kristine Johnson, Tony King, Seth McConchie, Stephanie McNew, Dollyann Myers, Martha Rudolph, Michael Ryon, Mathew Shaver, Stan Wallace, Deborah Williams, Shane Williams and June Welch.

Nashville – 5 May; 0600-2000. Weather: cloudy; wind W 0-5 mph; 41-61° F. The count area includes parts of Cheatham, Davidson, Rutherford, Sumner and Williamson counties. Observers: Beth Adams, Kristy Baker, Sandy Bivens, Scott Block (co-compiler: sblock01@

comcast.net), Susan Bradfield, Trae Bradfield, David Buchanan, Jean Buchanan, Ed Byrnes, Phillip Casteel, Clay Collins, Richard Conners, Camille Crenshaw, Jerry Drewry, Durwood Edwards, Clay Gascoigne, Ed Gleaves, Mark Hackney, Barbara Harris, Bob Ingle, Tony Lance, John Noel, David Olmstead, Bob Parrish, Cyndi Routledge, Steve Routledge, Sarah Scott, Sheila Shay, Danny Shelton, Chris Sloan, Chad Smith, Mike Smith, Joe Stone, Sabin Thompson, Chloe Walker, Melinda Welton, Terry Witt and Mary Zimmerman. Jan Shaw (non-participating co-compiler: 5019 Timberhill Drive, Nashville, TN 37211; JanKshaw@gmail.com).

White County – 4 May; 0430-1330. Weather: overcast, rain in the afternoon; wind 0-10 mph; 46-60° F. Observers: Douglas A. Downs (compiler: 403 Gillen Dr., Sparta, TN 38583; douglas_downs@hotmail.com), Judy C. Fuson, Michael J. Hawkins, Edmund K. LeGrand, Nancy S. Layzer, Michael P. O'Rourke, Thomas M. Saya, Stephen J. Stedman, Winston A. Walden and Carole D. Williams.

2013 SPRING COUNT

	Cumberland Co.	**Elizabethton**	**Knoxville**	**Nashville**	**White Co.**	**TOTALS**
Date	4/20/2013	4/27/2013	4/21/2013	5/5/2013	5/4/2013	
Species						
Snow Goose	1	-	-	-	-	1
Canada Goose	76	325	109	103	53	666
Mute Swan	1	-	-	-	-	1
Wood Duck	29	23	5	27	24	108
Gadwall	2	-	-	-	-	2
American Black Duck	-	-	-	1	-	1
Mallard	37	129	38	62	19	285
Blue-winged Teal	21	13	8	16	2	60
Northern Shoveler	1	-	-	2	-	3
Green-winged Teal	-	2	-	-	-	2
Ring-necked Duck	7	-	-	-	-	7
Lesser Scaup	1	1	-	-	-	2
Bufflehead	8	26	-	-	-	34
Hooded Merganser	-	-	-	-	3	3
Red-breasted Merganser	-	24	-	2	-	26
Ruddy Duck	15	-	-	-	-	15
Northern Bobwhite	11	-	1	22	8	42
Ruffed Grouse	-	2	-	-	-	2
Wild Turkey	5	56	7	85	27	180
Common Loon	2	22	-	8	-	32
Pied-billed Grebe	6	8	4	2	-	20
Horned Grebe	-	1	-	-	-	1
Red-necked Grebe	-	1	-	-	-	1
Double-crested Cormorant	-	131	43	182	-	356

	Cumberland Co.	Elizabethton	Knoxville	Nashville	White Co.	TOTALS
Great Blue Heron	7	32	49	54	15	157
Great Egret	1	-	-	16	-	17
Cattle Egret	-	-	-	1	-	1
Green Heron	2	8	6	3	2	21
Black-crowned Night-Heron	-	1	1	41	-	43
Yellow-crowned Night-Heron	-	4	-	1	-	5
Black Vulture	1	34	24	413	2	474
Turkey Vulture	45	91	37	42	41	256
Osprey	1	12	20	2	-	35
Bald Eagle	2	13	-	4	1	20
Northern Harrier	1	1	1	-	-	3
Cooper's Hawk	4	5	1	5	3	18
Accipiter sp.	-	-	3	1	-	4
Red-shouldered Hawk	13	-	4	10	5	32
Broad-winged Hawk	15	5	1	3	4	28
Red-tailed Hawk	11	9	15	27	6	68
Sora	-	1	-	-	-	1
American Coot	29	1	4	5	2	41
Sandhill Crane	-	3	2	-	-	5
Semipalmated Plover	-	-	1	2	-	3
Killdeer	24	46	21	25	38	154
American Avocet	-	36	-	-	-	36
Spotted Sandpiper	3	33	14	21	2	73
Solitary Sandpiper	1	34	7	21	14	77
Greater Yellowlegs	-	6	1	4	-	11
Lesser Yellowlegs	4	5	-	31	-	40
Semipalmated Sandpiper	-	-	-	1	-	1
Least Sandpiper	-	3	1	8	4	16
Pectoral Sandpiper	-	5	-	-	-	5
Short-billed Dowitcher	-	-	-	1	-	1
Wilson's Snipe	8	4	13	-	-	25
American Woodcock	1	-	-	-	-	1
Bonaparte's Gull	-	5	-	1	-	6
Ring-billed Gull	-	17	1	7	-	25
Herring Gull	-	1	-	2	-	3
Caspian Tern	-	1	-	-	-	1
Forster's Tern	-	1	-	4	-	5
Rock Pigeon	17	66	69	53	4	209
Eurasian Collared-Dove	-	2	-	3	7	12
Mourning Dove	100	221	157	152	152	782

	Cumberland Co.	Elizabethton	Knoxville	Nashville	White Co.	TOTALS
Yellow-billed Cuckoo	-	-	-	9	1	10
Barn Owl	-	-	2	-	-	2
Eastern Screech Owl	-	3	3	1	-	7
Great Horned Owl	-	3	-	1	-	4
Barred Owl	2	4	-	16	2	24
Northern Saw-whet Owl	-	2	-	-	-	2
Chuck-will's-widow	1	3	1	6	2	13
Eastern Whip-poor-will	25	13	-	4	5	47
Chimney Swift	6	220	82	166	17	491
Ruby-throated Hummingbird	5	24	1	7	1	38
Belted Kingfisher	3	28	15	16	-	62
Red-headed Woodpecker	31	4	-	8	12	55
Red-bellied Woodpecker	46	76	59	81	23	285
Yellow-bellied Sapsucker	-	7	-	-	-	7
Downy Woodpecker	16	30	27	49	3	125
Hairy Woodpecker	4	9	7	8	1	29
Northern Flicker	21	36	13	7	4	81
Pileated Woodpecker	24	53	10	23	11	121
American Kestrel	14	9	-	16	13	52
Eastern Wood-Pewee	-	1	-	23	6	30
Acadian Flycatcher	-	1	-	4	1	6
Eastern Phoebe	40	40	42	50	29	201
Great Crested Flycatcher	3	6	2	34	11	56
Eastern Kingbird	30	32	26	56	48	192
Scissor-tailed Flycatcher	-	-	-	3	-	3
Loggerhead Shrike	-	1	-	-	-	1
White-eyed Vireo	41	6	8	49	23	127
Yellow-throated Vireo	12	6	2	13	5	38
Blue-headed Vireo	14	53	10	4	3	84
Warbling Vireo	-	5	1	20	2	28
Philadelphia Vireo	-	-	-	5	-	5
Red-eyed Vireo	80	72	24	82	38	296
Blue Jay	98	202	133	100	32	565
American Crow	217	396	116	109	165	1003
Common Raven	-	12	-	-	-	12
Horned Lark	3	-	-	-	-	3
Purple Martin	30	45	16	166	47	304
Tree Swallow	118	389	132	52	84	775
Northern Rough-winged Swallow	42	111	122	124	66	465

	Cumberland Co.	Elizabethton	Knoxville	Nashville	White Co.	TOTALS
Bank Swallow	2	-	-	1	-	3
Cliff Swallow	3	549	187	527	5	1271
Barn Swallow	155	266	165	252	117	955
Carolina Chickadee	85	122	99	153	25	484
Tufted Titmouse	169	124	95	135	55	578
Red-breasted Nuthatch	4	1	4	-	2	11
White-breasted Nuthatch	24	29	18	38	5	114
Brown-headed Nuthatch	-	-	2	-	-	2
Brown Creeper	1	3	-	-	-	4
House Wren	11	33	4	1	4	53
Eastern Winter Wren	1	10	-	-	-	11
Carolina Wren	77	115	158	110	81	541
Blue-gray Gnatcatcher	96	98	48	102	42	386
Golden-crowned Kinglet	1	6	-	-	-	7
Ruby-crowned Kinglet	10	8	14	5	-	37
Eastern Bluebird	129	124	70	117	103	543
Veery	-	5	-	6	-	11
Gray-cheeked Thrush	-	-	-	1	-	1
Swainson's Thrush	-	-	-	77	2	79
Hermit Thrush	2	-	1	-	-	3
Wood Thrush	20	72	9	32	17	150
American Robin	341	534	300	191	113	1479
Gray Catbird	2	5	4	10	3	24
Northern Mockingbird	52	95	137	113	91	488
Brown Thrasher	35	39	16	32	33	155
European Starling	404	474	229	474	545	2126
American Pipit	-	15	5	-	-	20
Cedar Waxwing	40	-	8	191	62	301
Ovenbird	23	147	1	7	16	194
Worm-eating Warbler	7	16	3	8	4	38
Louisiana Waterthrush	4	16	-	10	7	37
Northern Waterthrush	1	-	-	2	-	3
Golden-winged Warbler	-	1	-	-	-	1
Blue-winged Warbler	2	1	1	2	-	6
Black-and-white Warbler	35	56	3	12	9	115
Prothonotary Warbler	-	-	1	23	1	25
Swainson's Warbler	-	4	-	-	-	4
Tennessee Warbler	-	-	-	83	-	83
Orange-crowned Warbler	-	-	2	2	-	4
Nashville Warbler	-	-	1	7	-	8

	Cumberland Co.	Elizabethton	Knoxville	Nashville	White Co.	TOTALS
Mourning Warbler	-	-	-	2	-	2
Kentucky Warbler	5	2	-	21	10	38
Common Yellowthroat	20	11	29	70	50	180
Hooded Warbler	56	135	12	10	11	224
American Redstart	12	7	2	3	1	25
Cape May Warbler	1	-	2	5	1	9
Cerulean Warbler	2	-	2	6	-	10
Northern Parula	20	33	9	32	8	102
Magnolia Warbler	-	1	-	11	-	12
Bay-breasted Warbler	-	-	-	14	1	15
Blackburnian Warbler	-	6	-	5	1	12
Yellow Warbler	-	4	6	17	1	28
Chestnut-sided Warbler	-	2	1	11	-	14
Blackpoll Warbler	-	-	-	81	-	81
Black-throated Blue Warbler	-	58	-	-	-	58
Palm Warbler	5	9	23	18	-	55
Pine Warbler	26	15	9	3	10	63
Yellow-rumped Warbler	19	108	92	85	3	307
Yellow-throated Warbler	27	24	1	22	17	91
Prairie Warbler	55	4	-	40	11	110
Black-throated Green Warbler	4	91	6	25	1	127
Canada Warbler	-	2	-	1	-	3
Yellow-breasted Chat	6	2	3	51	13	75
Eastern Towhee	88	168	91	82	35	464
Chipping Sparrow	100	101	67	34	65	367
Field Sparrow	67	40	69	133	52	361
Vesper Sparrow	1	-	-	-	-	1
Lark Sparrow	-	-	-	1	-	1
Savannah Sparrow	5	4	38	7	6	60
Grasshopper Sparrow	2	2	-	2	3	9
Henslow's Sparrow	-	-	-	-	2	2
Song Sparrow	106	211	116	16	42	491
Swamp Sparrow	3	2	21	2	1	29
White-throated Sparrow	38	46	84	16	1	185
White-crowned Sparrow	6	15	12	26	11	70
Dark-eyed Junco	1	78	-	-	1	80
Summer Tanager	1	-	1	79	1	82
Scarlet Tanager	11	22	12	49	8	102
Northern Cardinal	197	245	246	216	133	1037
Rose-breasted Grosbeak	8	17	-	78	1	104

	Cumberland Co.	Elizabethton	Knoxville	Nashville	White Co.	TOTALS
Blue Grosbeak	3	3	5	8	38	57
Indigo Bunting	10	9	11	123	72	225
Bobolink	-	5	1	57	-	63
Red-winged Blackbird	162	243	160	208	207	980
Eastern Meadowlark	133	105	31	42	204	515
Common Grackle	70	443	114	190	74	891
Brown-headed Cowbird	55	80	63	148	41	387
Orchard Oriole	1	13	14	50	18	96
Baltimore Oriole	-	3	-	11	2	16
Purple Finch	-	5	-	-	-	5
House Finch	45	38	49	47	14	193
Red Crossbill	-	-	-	-	1	1
Pine Siskin	4	52	2	3	-	61
American Goldfinch	146	324	76	208	54	808
House Sparrow	29	40	13	39	52	173
Total individuals	4725	9168	4600	7920	3713	30126
Total Species	132	155	120	156	117	197
Observers	10	39	35	38	10	132
Parties	5	9	18	12	5	49
Party Hours	55.5	96	66.58	82.25	30.25	330.58
Hours by car	39	-	15.08	37.5	25.75	117.33
Hours on foot	16.5	-	51.5	44.75	4.5	117.25
Hours by boat or other	-	-	-	-	-	-
Miles by car	452	-	224.7	434	259.5	1370.2
Miles on foot	5	-	36.8	29.75	3	74.55
Miles by boat or other	-	-	-	-	-	-
Hours Owling	4	5.5	2.17	2	1.5	15.17
Miles Owling	36	-	14	-	14	64
Feeder Watchers	-	-	-	-	-	-
Feeder Hours	-	3	11	-	-	14

2013 TENNESSEE SPRING NORTH AMERICAN MIGRATION COUNT
11 May 2013

Ron Hoff
TOS State Compiler
282 Hackworth Lane, Clinton, TN 37716

This was the seventeenth consecutive year for the Tennessee Spring North American Migration Count (NAMC) which is always run on the second Saturday in May. This year 115 observers in eight counties recorded 192 species. A Golden Eagle was reported from Montgomery County, a new species for the state count, making the all-time species total 266. The weather was moderate, but six counts recorded rain. Temperatures ranged from 49-77° F.

COUNTY SUMMARIES

Anderson County – 0600-2100. Weather: overcast with occasional rain; wind 0-10 mph; 60-77° F. Bald Eagle, Short-billed Dowitcher and Vesper Sparrow were all new species. Tennessee Warbler was the first record in 15 years on this count. Observers: Frank Bills, Sharon Bostick, Chuck Estes, Melinda Fawver, Carole Gobert, Ron Hoff (compiler: 282 Hackworth Ln., Clinton, TN 37716; aves7000@bellsouth.net) and Dollyann Myers.

Blount County – 0500-2100. Weather: overcast to partly cloudy, light rain in the mountains; 62-74° F. Observers: Jean J. Alexander (compiler-3908 Riverview Drive, Maryville, TN 37804; jjadmj@yahoo.com), Tiffany Beachy, Warren Bielenberg, Fae Burkhart, Wanda DeWaard, Dawn Dextraze, Ed Dorr, Margie Dorr, James B. Fitzgerald, Marian D. Fitzgerald, Tom E. Fitzgerald, Kim J. Henry, Stephen P. Henry, Thomas D. Howe, Susan Hoyle, James R. Human, David M. Johnson, Karen J. Petrey, Martha Rudolph and June D. Welch.

Hamilton County – 0530-1800. Weather: mostly cloudy, fog, light rain; wind variable; 58-76° F. Observers: David Aborn, Jake Banghart, Rosemary Baker, Tim Baker, Harold Birch, Clyde Blum, Gary Brunvoll, Kevin Calhoon (compiler: 934 Craven's Terrace, Lookout Mtn., TN 37409; KAC@tennis.org), Madeline Davidson, John Dever, Danny Gaddy, Corey Hagen, Bill Haley, Dennis Harris, Kathy Jacobson, Daniel Jacobson, Jonnie Sue Lyons, Bail McIntyre, Barbara McMahon, Mike McMahan, Tommy Rogers, Jeff Schaarschmitt, Kyle Simpson, David Spicer, David Stone, Cynthia Wilkerson, Jimmy Wilkerson and Libby Wolfe.

Loudon County – 0715-2115. Weather: cloudy; 62-75° F. Observers: Linda Colburn, Stan Colburn, Tony King (compiler: 110 Lee Dr., Lenoir City, TN 37771: tonykingbird@yahoo.com), Claire Manzo, Janet McKnight, Denise Nauman, Pat Patterson and Dave Veahurst.

Montgomery County – 0300-2045. Weather: cloudy, light rain; wind WNW 7 -13; 56-67° F. (compiler: 3251 E. Old Ashland City Road, Clarksville, TN 37043; elaine.foust@tn.gov), Joe Hall, Debbie Hamilton, Steve Hamilton, John Johanson, Rebecca Johanson, Daniel Moss, Cyndi Routledge, JoAnne Routledge, Larry Routledge, Steve Routledge, Rick Shipkowski, Stefan Woltmann and Stanley York.

Perry County - no times given. Weather: cloudy with rain showers; 55-75° F. No participant names submitted.

Putnam County – 0440-1755. Weather: fog, rain in the morning cloudy in the afternoon; wind variable at 0-5 mph; 58-67° F. Observers: John Barthelme, Douglas A. Downs, Ginger K. Ensor, Janie C. Finch, Judy C. Fuson, Michael J. Hawkins, Linda Henderson, Nancy S. Layzer, Edmund K. LeGrand, Michael P. O'Rourke, Thomas M. Saya, Stephen J. Stedman (compiler: 2675 Lakeland Dr., Cookeville, TN 38506; birdsongteam@charter.net and Carole D. Williams.

Shelby County – 0630-1630. Weather: scattered clouds with light wind; 49-75° F. Observers: Betty Blaylock, David Blaylock, Judy Dorsey, Jim Ferguson, Sue Ferguson, Theresa Graham, Van Harris, Margaret Jefferson, Dianna Johnson, Rusty Johnson, Gaynell Perry, Dick Preston (compiler: 261 Sassafras Circle, Munford, TN 38058; dickpreston@rittermail.com), Ed Thomas, Martha Waldron, Marianne Wilson and David Young.

2013 Spring NAMC

Counties	Anderson	Blount	Hamilton	Loudon	Montgomery	Perry	Putnam	Shelby	Totals
Species									
Black-bellied Whistling-Duck	-	-	-	-	-	-	-	26	26
Canada Goose	97	99	305	42	83	6	185	66	883
Wood Duck	3	28	5	-	38	x	7	3	84
Gadwall	-	-	1	-	-	-	-	-	1
American Black Duck	-	-	-	-	-	-	-	1	1
Mallard	21	44	68	2	2	-	31	1	169
Blue-winged Teal	1	9	14	-	8	-	9	27	68
Northern Shoveler	-	-	-	-	-	-	-	2	2
Ring-necked Duck	-	-	2	-	-	-	-	-	2
Bufflehead	-	12	-	-	-	-	-	-	12
Hooded Merganser	-	1	-	-	-	-	-	-	1
Red-breasted Merganser	-	-	-	-	2	-	-	-	2
Northern Bobwhite	-	5	-	2	25	10	8	-	50
Wild Turkey	2	24	28	6	59	x	28	3	150
Common Loon	-		-	2	-	-	2	-	4
Pied-billed Grebe	-		6	1	1	-	3	1	12
Double-crested Cormorant	32	2	6	49	21	-	-	3	113
Anhinga	-		-	-	-	-	-	1	1
American Bittern	-		2	-	-	-	-	-	2
Great Blue Heron	18	50	68	33	48	6	30	104	357
Great Egret	-	7	1	2	2	5	1	74	92
Little Blue Heron	-	-	-	-	-	-	-	1	1
Cattle Egret	-	-	-	-	-	-	-	5	5
Green Heron	7	6	9	5	8	2	18	3	58
Black-crowned Night-Heron	-	1	-	20	-	-	-	-	21

Counties	Anderson	Blount	Hamilton	Loudon	Montgomery	Perry	Putnam	Shelby	Totals
Yellow-crowned Night-Heron	-	1	-	-	-	-	-	-	1
Black Vulture	1	19	35	55	151	x	31	8	300
Turkey Vulture	7	27	62	9	124	x	91	12	332
Osprey	3	9	17	20	2	-	-	-	51
Mississippi Kite	-	-	-	-	-	-	-	42	42
Bald Eagle	1	-	4	2	10	2	-	2	21
Northern Harrier	-	-	-	-	1	-	-	-	1
Sharp-shinned Hawk	-	2	-	-	2	-	-	-	4
Cooper's Hawk	1	2	4	1	4	1	5	2	20
Red-shouldered Hawk	2	7	12	-	6	x	11	10	48
Broad-winged Hawk	1	1	3	-	3	x	5	5	18
Red-tailed Hawk	4	11	18	4	14	x	21	5	77
Golden Eagle	-	-	-	-	1	-	-	-	1
Sora	-	-	2	-	-	-	2	1	5
American Coot	3	1	3	-	-	-	5	8	20
Semipalmated Plover	8	1	2	-	-	1	21	8	41
Killdeer	11	7	29	7	84	x	56	31	225
Black-necked Stilt	-	-	-	-	-	-	-	37	37
Spotted Sandpiper	10	6	8	4	-	9	17	3	57
Solitary Sandpiper	10	6	4	1	4	8	8	18	59
Greater Yellowlegs	1	5	-	-	1	-	3	8	18
Lesser Yellowlegs	8	2	1	-	3	3	4	18	39
Semipalmated Sandpiper	3	8	50	-	-	6	7	3	77
Least Sandpiper	39	52	1	-	15	13	20	69	209
White-rumped Sandpiper	1	-	-	-	-	-	-	3	4
Pectoral Sandpiper	-	-	-	-	3	1	4	9	17
Stilt Sandpiper	-	-	-	-	-	-	-	24	24
Short-billed Dowitcher	1	-	-	-	-	-	-	2	3
Wilson's Snipe	-	-	19	-	-	-	-	-	19
Wilson's Phalarope	-	-	-	-	-	-	-	2	2
Ring-billed Gull	-	-	6	-	-	-	-	-	6
Forster's Tern	-	-	9	11	-	-	-	-	20
Rock Pigeon	13	45	115	21	109	x	62	19	384
Eurasian Collared-Dove	-	2	3	-	-	2	4	44	55
Mourning Dove	42	236	206	63	218	x	448	49	1262
Yellow-billed Cuckoo	1	8	8	-	20	x	1	-	38
Black-billed Cuckoo	-	-	1	-	-	-	-	-	1
Barn Owl	-	-	-	-	-	-	4	-	4
Eastern Screech Owl	1	1	4	-	2	3	2	-	13
Great Horned Owl	-	-	1	-	2	-	1	-	4
Barred Owl	7	2	-	-	13	x	4	5	31
Common Nighthawk	-	-	-	-	17	5	-	1	23
Chuck-will's-widow	1	1	4	-	2	1	2	-	11

Counties	Anderson	Blount	Hamilton	Loudon	Montgomery	Perry	Putnam	Shelby	Totals
Eastern Whip-poor-will	-	1	42	-	2	x	-	-	45
Chimney Swift	339	104	106	327	139	x	104	7	1126
Ruby-throated Hummingbird	3	11	10	-	17	x	8	29	78
Belted Kingfisher	3	3	12	2	12	x	5	2	39
Red-headed Woodpecker	-	-	8	8	13	1	14	6	50
Red-bellied Woodpecker	2	50	50	7	60	x	92	51	312
Downy Woodpecker	1	22	24	4	24	x	15	18	108
Hairy Woodpecker	1	5	3	1	11	6	3	-	30
Northern Flicker	5	8	11	3	2	x	25	-	54
Pileated Woodpecker	8	29	18	1	15	x	35	10	116
American Kestrel	-	-	2	-	4	1	12	1	20
Merlin	-	-	-	-	-	-	1	-	1
Olive-sided Flycatcher	-	-	-	-	-	-	-	1	1
Eastern Wood-Pewee	3	12	24	-	70	x	73	57	239
Acadian Flycatcher	10	3	3	-	30	x	49	68	163
Willow Flycatcher	-	2	-	-	2	1	-	-	5
Least Flycatcher	-	-	-	-	-	-	-	1	1
Empidonax sp.	-	3	-	-	-	-	3	-	6
Eastern Phoebe	19	56	38	4	27	x	88	17	249
Great Crested Flycatcher	2	17	32	2	20	x	59	35	167
Western Kingbird	-	-	-	-	-	-	-	3	3
Eastern Kingbird	17	25	68	11	37	x	121	21	300
Loggerhead Shrike	-	-	-	1	-	-	2	2	5
White-eyed Vireo	5	13	34	1	37	x	118	104	312
Yellow-throated Vireo	5	7	12	-	11	x	40	10	85
Blue-headed Vireo	5	6	1	-	5	-	2	1	20
Warbling Vireo	-	-	-	-	2	3	1	16	22
Philadelphia Vireo	-	-	-	-	-	-	-	1	1
Red-eyed Vireo	34	123	127	2	38	x	328	37	689
Blue Jay	11	91	95	17	75	x	187	13	489
American Crow	34	157	166	34	153	x	405	44	993
Fish Crow	-	-	13	-	-	-	-	5	18
Horned Lark	-	-	-	-	20	-	-	-	20
Purple Martin	-	9	79	124	113	x	79	26	430
Tree Swallow	26	33	129	63	21	-	41	1	314
Northern Rough-winged Swallow	12	25	73	8	46	x	31	11	206
Cliff Swallow	243	115	128	32	394	x	33	25	970
Barn Swallow	8	152	106	58	124	x	210	67	725
Carolina Chickadee	17	75	131	53	72	x	90	24	462
Tufted Titmouse	18	79	128	18	109	x	270	67	689
Red-breasted Nuthatch	-	4	-	-	-	-	-	2	6
White-breasted Nuthatch	2	15	21	2	42	x	25	6	113

Counties	Anderson	Blount	Hamilton	Loudon	Montgomery	Perry	Putnam	Shelby	Totals
Brown-headed Nuthatch	-	4	13	5	-	-	2	-	24
Brown Creeper	-	1	-	-	-	-	-	-	1
House Wren	-	7	6	-	23	-	20	-	56
Sedge Wren	-	-	-	-	6	-	-	-	6
Carolina Wren	38	116	145	23	126	x	249	115	812
Blue-gray Gnatcatcher	21	31	104	-	83	x	117	68	424
Eastern Bluebird	27	132	167	75	152	x	255	22	830
Veery	-	1	3	-	1	2	2	-	9
Gray-cheeked Thrush	-	1	1	-	2	2	-	1	7
Swainson's Thrush	1	10	15	-	37	12	8	37	120
Wood Thrush	13	20	5	-	23	x	75	5	141
American Robin	64	290	348	93	143	x	613	23	1574
Thrush sp.	-	1	-	-	-	-	-	-	1
Gray Catbird	2	22	25	4	13	5	16	4	91
Northern Mockingbird	23	120	147	39	129	x	296	50	804
Brown Thrasher	11	27	76	-	31	x	77	4	226
European Starling	74	426	374	116	310	x	1093	55	2448
Cedar Waxwing	13	58	207	11	113	x	71	53	526
Ovenbird	9	19	11	-	2	8	33	1	83
Worm-eating Warbler	-	7	4	-	3	3	10	3	30
Louisiana Waterthrush	3	19	2	-	9	x	20	3	56
Northern Waterthrush	-	2	1	-	-	2	1	-	6
Blue-winged Warbler	-	1	-	-	1	7	30	-	39
Black-and-white Warbler	3	20	25	-	2	7	30	4	91
Prothonotary Warbler	-	1	-	1	33	x	7	16	58
Swainson's Warbler	-	3	-	-	-	-	-	3	6
Tennessee Warbler	2	4	24	-	60	12	26	216	344
Orange-crowned Warbler	-	-	1	-	-	-	-	-	1
Nashville Warbler	-	-	2	-	2	1	-	-	5
Kentucky Warbler	6	-	3	-	17	x	90	21	137
Common Yellowthroat	15	39	39	7	81	x	177	11	369
Hooded Warbler	10	42	30	-	1	x	65	18	166
American Redstart	21	6	25	-	15	21	45	19	152
Cape May Warbler	-	4	8	-	1	1	5	-	19
Cerulean Warbler	6	-	-	-	1	6	33	9	55
Northern Parula	7	17	3	-	33	x	74	41	175
Magnolia Warbler	-	3	1	-	18	5	7	4	38
Bay-breasted Warbler	-	2	3	-	1	2	3	-	11
Blackburnian Warbler	2	-	2	-	-	3	-	1	8
Yellow Warbler	1	6	10	-	14	3	30	1	65
Chestnut-sided Warbler	2	4	1	-	9	1	5	4	26
Blackpoll Warbler	1	6	37	-	8	3	16	-	71
Black-throated Blue Warbler	-	1	2	-	-	-	-	-	3

Counties	Anderson	Blount	Hamilton	Loudon	Montgomery	Perry	Putnam	Shelby	Totals
Palm Warbler	1	-	23	-	7	6	8	1	46
Pine Warbler	-	18	40	1	6	6	15	2	88
Yellow-rumped Warbler	7	4	20	-	6	x	20	-	57
Yellow-throated Warbler	9	12	2	-	27	11	44	2	107
Prairie Warbler	3	2	34	-	21	9	47	-	116
Black-throated Green Warbler	10	39	8	-	10	3	10	4	84
Canada Warbler	-	1	1	-	-	2	-	-	4
Yellow-breasted Chat	5	46	40	-	35	x	56	11	193
Warbler sp.	-	1	-	-	-	-	-	-	1
Eastern Towhee	14	44	123	11	88	x	200	7	487
Chipping Sparrow	11	52	70	-	55	x	198	8	394
Field Sparrow	23	66	55	5	100	x	147	7	403
Vesper Sparrow	1	-	-	-	-	-	-	-	1
Savannah Sparrow	3	1	6	-	5	x	1	2	18
Grasshopper Sparrow	9	5	-	-	10	-	6	-	30
Henslow's Sparrow	-	-	-	-	7	-	-	-	7
Song Sparrow	35	50	93	9	14	-	178	-	379
Lincoln's Sparrow	-	-	-	-	1	8	-	-	9
Swamp Sparrow	-	1	5	-	2	2	1	-	11
White-throated Sparrow	-	-	-	1	4	x	1	1	7
White-crowned Sparrow	-	4	1	-	15	x	2	1	23
Summer Tanager	1	-	35	-	60	x	88	52	236
Scarlet Tanager	9	36	52	1	11	x	21	3	133
Northern Cardinal	61	219	259	35	271	x	438	67	1350
Rose-breasted Grosbeak	2	7	18	3	19	14	18	13	94
Blue Grosbeak	1	9	11	3	24	x	37	8	93
Indigo Bunting	49	201	145	13	195	x	429	219	1251
Painted Bunting	-	-	-	-	-	-	-	1	1
Dickcissel	-	1	2	-	39	1	-	45	88
Bobolink	11	-	4	-	96	7	19	4	141
Red-winged Blackbird	39	132	119	25	290	x	401	78	1084
Eastern Meadowlark	15	38	63	14	137	x	200	14	481
Brewer's Blackbird	-	-	-	-	1	-	-	-	1
Common Grackle	28	140	190	86	230	x	288	48	1010
Brown-headed Cowbird	13	45	81	11	58	x	134	57	399
Orchard Oriole	13	18	33	-	27	x	64	21	176
Baltimore Oriole	2	4	5	-	8	1	3	28	51
Purple Finch	-	-	-	-	-	1	1	-	2
House Finch	1	28	102	31	59	x	57	8	286
Pine Siskin	-	-	2	-	10	2	-	3	17
American Goldfinch	49	99	119	25	174	x	80	18	564
House Sparrow	8	40	62	12	103	x	135	5	365

Counties	Anderson	Blount	Hamilton	Loudon	Montgomery	Perry	Putnam	Shelby	Totals
Total individuals	2002	4841	6533	1805	6583	-	10678	3108	35550
Total species	113	134	141	74	142	130	136	139	192
Observers	7	20	28	8	14	9	13	16	115
Parties	4	14	-	-	8	7	7	9	49
Party hours	25.11	76.85	90	19	52.91	27	73.5	32	396.37
Hours by car	15.11	20.75	39	14	27.83	20	61.75	16.5	214.94
Hours by foot	10	54.6	51	5	25.08	4	11.75	15.5	176.93
Hours by canoe or other	-	1.5	-	-	-	3	-	1	5.5
Miles by car	95.4	313.5	281	94	264	30	578	146	1801.9
Miles by foot	6.4	37.5	35	3.5	14.5	2	7	15	120.9
Miles by canoe or other	-	1	-	-	-	1	-	3	5
Hours owling	1	1.75	3	-	3	1	0.75	-	10.5
Miles owling	5	0.5	23	-	32	1	17	-	78.5
Feeder observers	2	8	-	-	6	1	-	-	17
Feeder hours	1.5	6.5	-	7	6.33	0.33	-	-	21.66

ROUND TABLE NOTES

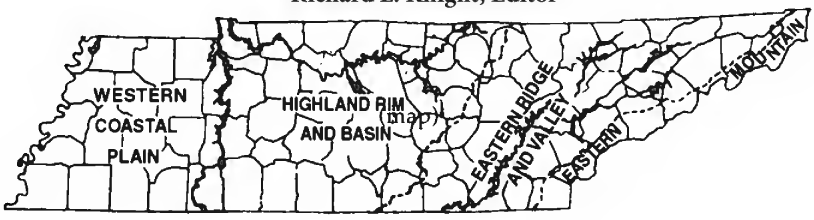
WINTERING DICKCISSEL IN MARYVILLE - On 1 January 2013 I observed a male Dickcissel (*Spiza americana*) on the ground below my feeder in Maryville, TN. Through 11 April I entered 39 observations on eBird. The bird was at my feeder each day of the 2013 Great Backyard Bird Count (GBBC) 15 – 18 February. One night I received a phone call from Ray Swaggerty in Charleston, SC. He asked me if I was the person who reported a Dickcissel on the GBBC. I told him I was, and he said "you and I are the only people in North America who have reported one." He had observed his, a female, around Christmas. Mine was a well-colored male which continued to gain breeding plumage during the spring. I believe there were only four Dickcissels in North America during the GBBC.

The Dickcissel appeared to feed on the white millet in the feeder or on the ground. It often accompanied, or was accompanied by, one or two House Sparrows (*Passer domesticus*), but sometimes appeared by itself. It was a great treat to watch this bird in East Tennessee.

Warren Bielenberg, Maryville, TN

THE SPRING SEASON

Richard L. Knight, Editor



1 March - 31 May 2013

Cool temperatures and copious rain occurred statewide this spring, especially over the first half of the season. These conditions seemed to delay migration. Regardless, numerous exciting observations were reported.

Waterfowl highlights this spring included a Fulvous Whistling-Duck in Memphis, a Cinnamon Teal in Humphreys County, and a lingering Harlequin Duck in Kingsport. A breeding-plumaged Red-necked Grebe on Watauga Lake was in a plumage seldom seen in Tennessee. Anhinga, Brown Pelican and Least Tern were notable in East Tennessee. Of just two reports of Purple Gallinule in the state, one in the mountain region was most unexpected. Among shorebirds, Willets appeared in all four regions. Most American Avocet sightings in Tennessee occur in the autumn, thus four reports this spring were unusual.

Individual White-winged Doves were observed at three sites, two of which were in Middle Tennessee, as reports of this species continue to increase. A Common Ground-Dove was noted in Gibson County. Scissor-tailed Flycatchers returned to traditional nesting sites in three regions. A well documented, McCown's Longspur in Hamilton County was the second state record. Also well documented, a Clay-colored Sparrow in Carter County was seen over a three day period. Of 13 total reports of Clay-colored Sparrow in the state, 11 have occurred since 2002. Remnants of the past winter's boreal finch flight were best represented by Red Crossbills in East Tennessee, a pair of Evening Grosbeaks in Middle Tennessee and numerous lingering Pine Siskins.

We welcome Scott Somershoe as the new compiler for the Highland Rim and Basin Region.

Standard Abbreviations

ad - adult
ba - banded
Co - County
Cr - Creek
ers - earliest reported sighting
et al. - and others
fide - reported by
L - Lake
lrs - latest reported sighting
max - maximum count
m.ob. - many observers
Mtn - Mountain
NWR - National Wildlife Refuge
R - River
SP - State Park
WMA - Wildlife Management Area
yg - young

WESTERN COASTAL PLAIN REGION - - Temperatures throughout the region were slightly below average during March and early April, and milder then normal from mid-April through May. Rainfall was heavy, with totals running three to four inches above historic norms throughout the region, but especially so in the western most counties.

The overall numbers for passerine migrants seemed low. Many species were reported in low numbers; Gray Catbirds, Rose-breasted Grosbeaks and even the usually abundant Yellow-billed Cuckoo were down, as were many species of warblers. Conversely, tanagers, orioles and Blue Grosbeaks appeared in good numbers. The season did produce its share of interesting sightings. Fulvous Whistling-Duck, White-faced Ibis, White-winged Dove and Spotted Towhee were found in Shelby County, while a Common Ground-Dove was seen in Gibson County.

Duck - Ibis: **Black-bellied Whistling-Duck**: thru season, max on 14 May (44) Ensley (JJW). **Fulvous Whistling-Duck**: 13-31 May (1) Ensley (SNM, NPM, m.ob., photo). **Blue-winged Teal**: 18 Apr (500) Three Rivers WMA, Obion Co (MAG), max. **Redhead**: 13 May (1 female) Ensley (SNM, NPM); 22 May (1 male) Lake Co (MAG); lrs. **Greater Scaup**: 22 May (1 female) Lake Co (MAG), lrs. **Lesser Scaup**: 2 Mar (2,000) TVA Lake, Shelby Co (SNM, NPM), max. **Ruddy Duck**: 22 May (9) Lake Co (MAG), lrs. **Common Loon**: 2-20 Apr (3-1) Garner L, Shelby Co (Gaynell Perry); 20 May (1) Mud L, Lake Co (MAG), lrs. **Horned Grebe**: 8 Mar (5) Herb Parson's L, Fayette Co (SNM, NPM). **Anhinga**: 17 Apr (3, flying north) Ensley (SGS); 18 Apr (pair) Mineral Slough, Fayette Co (SGS); 3 May (1) Lauderdale Co (RS); 11 / 14 May (1) Riverport Rd. ponds, Shelby Co (Q.B. Gray / JJW); 20 May (1) Mud L, Lake Co (MAG); 27 May (1) Loosahatchie R bottoms, Fayette Co (MCT). **American White Pelican**: 25 May (53) Hwy 181, Lake Co (DDP). **American Bittern**: 13 Apr (1) Eagle L, Shelby Co (Virginia Reynolds). **Great Egret**: 22 Mar (4) Forked Deer R, Madison / Gibson Co line (MAG), ers. **Little Blue Heron**: 15 Apr (5) Hatchie NWR (RPF), ers. **Cattle Egret**: 18 Apr (20) Gooch WMA (MAG), ers. **White-faced Ibis**: 25 Apr - 3 May (1) Ensley (JJW, m.ob.).

Osprey - Phalarope: **Osprey**: 13 Mar (1) Gibson Co Lake (MAG), ers. **Mississippi Kite:** 24 Apr (1) northwest Shelby Co (Van Harris), ers; 10 May (1) Hatchie NWR (RPF), ers; 13-26 May (1-3) Paris, Henry Co (SE); 15 May (2) Gibson Co (MAG); 23 May (2) Crockett Co (MAG). **Common Gallinule**: 21 Apr (1) Riverport Rd, Shelby Co (Virginia Reynolds). **Sandhill Crane**: 10 Mar (2) Forked Deer R bottoms, Haywood Co (Lee Anne Russell); 12 Mar (250) Obion Co (MAG). **Black-bellied Plover**: 13 May (5) Lake Co (MAG). **American Golden-Plover**: 12 Mar (60+) Hardin Co, west of Tennessee R (Allan Trently); 2 Apr (300+) Great River Rd, Lake Co (MAG); 23 May (1) Lake Co (MAG), lrs. **Black-necked Stilt**: 18 Apr (7) Three Rivers WMA, Obion Co (MAG); 26 Apr (3) Britton Ford, Henry Co (SE, photo); 20 May (52) Lake Co (MAG), max; 21 May (109) Ensley (SNM, NPM), max; 23 May (1) Crockett Co (MAG). **Willet**: 12 May (1) Lake Co (fide Nancy Moore). **Lesser Yellowlegs**: 25 Apr (366+) Ensley (JJW), max. **Western Sandpiper**: 14 May (6) Ensley (JJW). **White-rumped Sandpiper**: 11-18 May (4-8) Ensley (DDP / TJW); 20 May (3) Lake Co (MAG). **Baird's Sandpiper**: 17 Apr / 18 May (2) Ensley (SGS / TJW). Dunlin: 14 May (3) Ensley (JJW); 23 May (1) Crockett Co (MAG). **Stilt Sandpiper**: 5 May (32) Ensley

(JJW), max. Short-billed Dowitcher: 5 May (6) Ensley (JJW). **Long-billed Dowitcher**: 5 May (3) Ensley (JJW). **dowitcher sp.**: 24 Apr (53) Hatchie NWR (RPF). **Wilson's Snipe**: 2 Apr (200+) Great River Rd, Lake Co (MAG), max. **Wilson's Phalarope**: 17 Apr - 22 May (max 15 on 25 Apr) Ensley (SGS, JJW, m.ob.).

Gull - Falcon: **Laughing Gull**: 12 / 22 May (1) Lake Co (TJW / MAG). **Lesser Black-backed Gull**: 2 Apr (1) Pace Point, Henry Co (TJW). **Caspian Tern**: 28 Mar (1) Pace Point, Henry Co (CF), ers. **Black Tern**: 20 May (4) Mud L, Lake Co (MAG). **Forster's Tern**: 2 Apr (1) Paris Landing, Henry Co (TJW), ers. **White-winged Dove**: 29 Apr (1) Harbor Town, Shelby Co (NPM). **Common Ground-Dove**: 2 Apr (1) Hwy 104, Gibson Co (MAG). **Yellow-billed Cuckoo**: 20 Apr (1) Obion Co (Dustin Crowell), ers. **Black-billed Cuckoo**: 8 May (1) near Hatchie NWR (RPF). **Eastern Whip-poor-will**: 16 Apr (1) Wolf R, Shelby Co (Martha Waldron), increasingly rare. **Ruby-throated Hummingbird**: 5 Apr (1) Decatur Co (Anna Varney), ers. **Merlin**: 4 May (1) Ensley (RS). **Peregrine Falcon**: 25 Apr / 5 May (1) Ensley (JJW / SGS).

Flycatcher - Longspur: **Olive-sided Flycatcher**: 22 May (1) Walnut Log, Obion Co (MAG). **Acadian Flycatcher**: 18 Apr (2) Gooch WMA (MAG), ers. **Great Crested Flycatcher**: 18 Apr (4) Gooch WMA (MAG), ers. **Western Kingbird**: 5-27 May (1-10) Shelby Co (SGS, DDP, SNM, NPM, m.ob.). **Scissor-tailed Flycatcher**: 27 May (pair at nest) President's Is, Shelby Co (MCT, Q.B. Gray). **Western Kingbird x Scissor-tailed Flycatcher**: 27 May (1 female) President's Is, Shelby Co (MCT). **Warbling Vireo**: 15 Apr (1) Hatchie NWR (RPF), ers. **Philadelphia Vireo**: 15 May (1) Trenton, Gibson Co (MAG). **Northern Rough-winged Swallow**: 12 Mar (1) Obion Co (MAG), ers. **Cliff Swallow**: 25 May (5,000+ birds and 2,500 nests) Hwy I-155 bridge over Mississippi R, Dyer Co (DDP). **House Wren**: 18 Apr (1) Trenton, Gibson Co (MAG), ers. **Lapland Longspur**: 12 Mar (12) Obion Co (MAG), lrs.

Warbler - Blackbird: **Golden-winged Warbler**: 8 May (1) Haywood Co (RPF). **Connecticut Warbler**: 5 May (1) Ensley (SGS). **Kentucky Warbler**: 18 Apr (1) Obion Co (MAG), ers. **Cerulean Warbler**: 19 Apr (1) Gibson Co (MAG), ers. **Magnolia Warbler**: 19 Apr (1) Gibson Co (MAG), ers. **Spotted Towhee**: 17-25 Mar (1 male) Cordova, Shelby Co (Rodger Dicks, photo). **Lark Sparrow**: 24 Apr (1) Gibson Co (MAG). **Lincoln's Sparrow**: 19 Apr (1) Gibson Co (MAG). **Blue Grosbeak**: 12 Apr (2) Henry Co (SE), ers. **Painted Bunting**: 11 May (1) Ensley (DDP). **Dickcissel**: 17 Apr (1) Ensley (SGS), ers. **Bobolink**: 17 Apr (15) Ensley (SGS), ers. **Rusty Blackbird**: 1 Mar (110) Memphis (SNM, NPM). **Brewer's Blackbird**: 2 Apr (8) Lake Co (MAG), lrs.

Locations: Ensley, Shelby Co; Gooch WMA, Obion Co; Hatchie NWR, Haywood Co.

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HIGHLAND RIM AND BASIN REGION - - The Middle Tennessee region had a much cooler March than usual with an average temperature five degrees below normal, while April and May temperatures were right on the long term means. Precipitation in March was right on average, however April saw a few more inches of rain than usual and

May was unusually dry. Excess rain in April brought high water levels on the Tennessee River, with public lands along the river flooded through early May.

A variety of excellent sightings was found including Cinnamon Teal, Purple Gallinule, Upland Sandpiper and White-winged Dove. An above average number of Snowy Egrets were reported, including a nesting pair. Good numbers of shorebirds were found in the Nashville basin, possibly due to additional observers and extra scrutiny, while storms brought in substantial numbers of western Willets. Caspian Terns in late March provided some of the few state records for that month. One of the most unusual reports was an adult Golden Eagle on two separate days in mid-May on Fort Campbell. The tenth consecutive annual driving survey through western Putnam County tallied the second highest number of Cerulean Warblers for that study and also acquired some impressive counts for other Neotropical migrants.

Waterfowl: **Greater White-fronted Goose**: 1-7 Mar (9-16) Eagleville (SZ, SGS); 3 Mar (25) DeKalb Co (Judy Fuson); 5-8 Mar (max 31) Coffee Co (Dale Swant, Ruth Luckado et al.). **Snow Goose**: 1-7 Mar (15-40 white and 3-8 blue) Eagleville (SZ, SGS); 2 Mar (14 white and 6 blue) DeKalb Co (Judy Fuson). **Ross's Goose**: 19 Mar (1) Montgomery Co (SY). **Trumpeter Swan**: 11 May (1) Williamson Co (SNM), lingering from fall and winter. **American Black Duck**: 27 May (1) Radnor L (FF), lrs. **CINNAMON TEAL**: 29 Mar (1 male) New Johnsonville sewage ponds, Humphreys Co (RS, CF). **Northern Shoveler**: 14 May (2) Murfreesboro (SGS, SZ), lrs. **Redhead**: 15 Mar (59) Warren Co (SNM, NPM). **Lesser Scaup**: 9 May (1) Bark Camp Barrens WMA, Coffee Co (Angelina Haines, Richard Chandler), lrs. **Common Goldeneye**: 24 May (1) Duck R Unit (SZ), lrs. **Hooded Merganser**: 24 May (female and 12 yg) Duck R Unit (SE). **Red-breasted Merganser**: 3 Apr (53) Percy Priest WMA (SGS), max. **Ruddy Duck**: 29 Mar (104) Percy Priest L (SGS), max.

Loon - Gallinule: **Common Loon**: 29 Mar (85) Percy Priest L (DBE), max. **Horned Grebe**: 11 May (1) Old Hickory L (CAS, CR, CW), lrs. **American White Pelian**: 1 Mar (400) Cross Cr NWR (SY). **American Bittern**: 12 Apr (1) Bell's Bend (TL). **Snowy Egret**: 21 Apr (1) Duck R Unit (TJW, SZ); 22 Apr (2) Guices Cr, Barkley WMA, Stewart Co (Dana Threadgall); 24 Apr / 11 May (1) Old Hickory L (Ed Schneider / CAS, CW, CR); 21 May (2 at nest) Little Elder Is (SGS); 11 May (1) Bell's Bend (CAS, CW, CR); 11-12 May (2-1) Murfreesboro (CAS, CW, CR / DBE, SZ). **Little Blue Heron**: 21 May (10, with 4 nests) Little Elder Is (SGS). **Tricolored Heron**: 21 Apr / 24 May (1) Duck R Unit (TJW, SZ / SE). **Cattle Egret**: 14 Apr (1) Bell's Bend (TL); 18 Apr (4) Warren Co (SNM, NPM); 22 Apr (2) DeKalb Co (Judy Fuson); 4 May (1) Murfreesboro (SZ); 21 May (500+) Little Elder Is (SGS). **Yellow-crowned Night-Heron**: 8 Apr (1) Murfree Spring (DBE). **Osprey**: 10 Mar (1) Smyrna, Rutherford Co (SGS), ers. **Mississippi Kite**: 15 / 21 May (1) Clarksville (Stefan Woltmann). **Red-tailed Hawk**: 10 Mar (1, ad dark morph western) Sharp Springs Park, Rutherford Co (SGS); 14 Mar (1, Harlan's) Savannah, Hardin Co (Jud Johnston); 16 Mar (1, Krider's) Nashville (Joshua Stevenson). **Golden Eagle**: 11 / 14 May (1 ad) Fort Campbell, Montgomery Co (DMo). **Sora**: 22 Mar (1) Duck R Unit (SY), ers. **Purple Gallinule**: 28 Apr - 1 May (1) Duck R Unit (RS, m.ob., photo).

Shorebirds: **Black-bellied Plover**: 23 / 31 May (2 / 5) Duck R Unit (Marnie Mitchell,

photo / RS). **American Golden-Plover**: 10 Mar (2) Duck R Unit (RS), ers; 12 / 13 Mar (1 / 6) Eagleville (DBE / SGS); 15 Mar (1) Coffee Co sod farm (SNM, NPM). **Semipalmated Plover**: 28 Apr (30) Eagleville (SGS), max. **Killdeer**: 11 Mar (300+) Eagleville (SGS), max. **American Avocet**: 24 Apr (19) Old Hickory L (PDC); 23 May - 1 Jun (1) Duck R Unit (Marnie Mitchell / RS). **Spotted Sandpiper**: 16 May (29+) Murfreesboro (SGS), max. **Greater Yellowlegs** and **Lesser Yellowlegs**: 12 Mar (3 / 2) Eagleville (SGS, SZ, DBE), ers for both. **Willet**: 24 / 27 Apr (13 / 58) Old Hickory L (PDC, m.ob.); 28 Apr (2) Woods Reservoir, Franklin Co (Richard Chandler); 1-2 May (14) Duck R Unit (TJW / CF); 10 May (4) Edgar Evins SP, DeKalb Co (Mark Taylor); 11 May (1) Bell's Bend (CAS, CW, CR). : 28 Apr (1) Eagleville (DBE, TJW, SZ); 12 May (1) Murfreesboro (DBE). **Semipalmated Sandpiper**: 21 May (125+) Rutherford Co (SGS), max. **White-rumped Sandpiper**: 11 May (1) Bell's Bend (CAS, CW, CR); 16 May (7) Rutherford Co (SGS); 24 / 31 May (1 / 3) Duck R Unit (SZ / RS). **Pectoral Sandpiper**: 9 / 13 Mar (7 / 350+) Eagleville (DBE / SGS), ers / max; 24 Mar (75) Coffee Co sod farm (Ruth Luckado). **Dunlin**: 24 May (5) Duck R Unit (SZ). **Stilt Sandpiper**: 11 May (1) Bell's Bend (CAS, CW, CR). **Long-billed Dowitcher**: 28 Apr (2) Eagleville (SGS, DBE, TJW, SZ). **dowitcher sp.**: 24 Apr (63) Duck R Unit (CF). **Wilson's Snipe**: 13 Mar (265+) Eagleville (SGS), max.

Gull - Falcon: **Bonaparte's Gull**: 12 Mar (800) Percy Priest WMA (SGS, SZ), max. **Laughing Gull**: 19 Mar (1) Duck R Unit (Marnie Mitchell, photo). **Herring Gull**: 13 May (1) Old Hickory L (SGS), lrs. **Least Tern**: 31 May (1) Duck R Unit (RS). **Caspian Tern**: 30 Mar (2) New Johnsonville sewage ponds, Humphreys Co (MCT), ers. **White-winged Dove**: 18-20 Apr (1) Nashville (Michael Lee Bierly); 25 Apr (1) Smithville, DeKalb Co (Tommy Curtis, Virginia Curtis). **Black-billed Cuckoo**: 18 May (1) Radnor L (PDC, m.ob.). **Barn Owl**: 17 Apr (1) Williamson Co (SGS). **Short-eared Owl**: 8 / 27 Mar (6 / 2) Montgomery Co (DMo). **Red-headed Woodpecker**: 14 Mar (1) Radnor L (Richard Connors). **Merlin**: 10 Mar (1) Smyrna, Rutherford Co (SGS). **Peregrine Falcon**: 22 / 30 Mar (1) Duck R Unit (SY / MCT); 9 May (1) Murfree Spring (SZ).

Flycatcher - Pipit: **Olive-sided Flycatcher**: 8 / 11 May (1) Radnor L (KBo, NTOS / CAS); 20 May (1) Cheatham WMA, Cheatham Co (SGS). **Eastern Wood-Pewee**: 23 Apr (1) Cheatham WMA, Cheatham Co (SGS), ers. **Yellow-bellied Flycatcher**: 14 May (1) Montgomery Co (DMo). **Acadian Flycatcher**: 20 May (88) western Putnam Co (SJS), max. **Alder Flycatcher**: 13 May (1) Shelby Bottoms (PDC); 16-18 May (1) Murfree Spring (SGS, TJW, DBE, m.ob.). **Willow Flycatcher**: 15-16 May (1) Murfree Spring (SGS, TJW, DBE, SZ). **Least Flycatcher**: 13 May (1) Shelby Bottoms (SGS, KBo, TL); 15 May (1) Murfree Spring (TJW, SZ, DBE). **Great Crested Flycatcher**: 17 Apr (1) Radnor L (Scott Block, NTOS), ers. **Eastern Kingbird**: 9 Apr (1 each) Franklin and Rutherford Cos (SGS), ers. **Scissor-tailed Flycatcher**: 10 Apr (1) Lytle Cr Rd, Rutherford Co (SGS); 13 Apr (1) Murfreesboro (Kristy Baker); 19 Apr / 15 May (1 / pair with nest) Springfield, Robertson Co (TL); 29 Apr / 30 May (1) Duck R Unit (RS / CF); 11 May (1) Savannah bottoms, Hardin Co (Daniel Floyd). **Loggerhead Shrike**: 15 Mar (pair) Warren Co (SNM, NPM); 31 Mar (7) Robertson Co (TL); 9 Apr (1 each) Lincoln and Franklin Cos (SGS). **Bell's Vireo**: 16 May (1) Montgomery Co (DMo). **White-eyed Vireo**: 8 Apr (1) Montgomery Co (SY), ers. **Yellow-throated Vireo**: 8

Apr (1) Stewart Co (SY), ers. **Warbling Vireo**: 22 Apr (1) Franklin Co (Richard Chandler), ers. **Philadelphia Vireo**: 20 Apr (1) Rutherford Co (DBE), ers. **Northern Rough-winged Swallow** and **Barn Swallow**: 18 Mar (1 each) Lewis Co (WMP), ers. **Cliff Swallow**: 22 Mar (1) Cross Cr NWR (SY), ers; 17 Apr (2000 birds; 1500 nests) I-40 bridge over Tennessee R, Humphreys / Benton Cos (SGS). **House Wren**: 30 Mar (1) Montgomery Co (SY), ers. **Marsh Wren**: 24 Apr (1) Cross Cr NWR (SY). **Bewick's Wren**: 18 Mar (1) Lytle Cr Rd, Rutherford Co (CW). **Blue-gray Gnatcatcher**: 1 Apr (1) Montgomery Co (SY), ers. **Veery**: 22 Apr (1) Rutherford Co (DBE), ers. **American Pipit**: 15 Mar (21) Coffee Co sod farm (SNM, NPM).

Warblers: **Ovenbird**: 6 Apr (1) Warren Co (SNM, NPM), ers. **Worm-eating Warbler**: 10 Apr (2) Beaman Park, Davidson Co (Durwood Edwards), ers. **Louisiana Waterthrush**: 19 Mar (1) Lewis Co (WMP), ers. **Blue-winged Warbler**: 7 Apr (1) Davidson Co (William Fissell), ers. **Black-and-white Warbler**: 8 Apr (1) Beaman Park, Davidson Co (Durwood Edwards), ers. **Prothonotary Warbler**: 7 Apr (1) Montgomery Co (SY), ers. **Tennessee Warbler**: 15 Apr (1) Shelby Bottoms (PDC), ers. **Nashville Warbler**: 15 Apr (1) Shelby Bottoms (PDC), ers. **Connecticut Warbler**: 6 May (1) Shelton Ferry WMA, Montgomery Co (Stefan Woltmann); 17 May (1) Murfree Spring (DBE); 18 May (2) Radnor L (CAS, NTOS). **Mourning Warbler**: 5-18 May (1-2) Radnor L (CAS, m.ob.); 5 / 13 May (1) Shelby Bottoms (PDC / SGS); 18 May (1) Gallatin, Sumner Co (Ken Oeser). **Kentucky Warbler**: 16 Apr (1) Montgomery Co (SY), ers; 20 May (75) western Putnam Co (SJS), max. **Hooded Warbler**: 10 Apr (1) Radnor L (KBo, NTOS), ers. **American Redstart**: 20 May (67) western Putnam Co (SJS), max. **Cape May Warbler**: 18 Apr (1) Radnor L (FF); 30 Apr (2) Rutherford Co (SGS). **Cerulean Warbler**: 10 Apr (1) Radnor L (KBo, NTOS), ers; 20 May (56) western Putnam Co (SJS), max. **Northern Parula**: 8 Apr (1 each) Radnor L / Montgomery Co / Rutherford Co (Jan Shaw / SY / DBE), ers; 20 May (114) western Putnam Co (SJS), max. **Blackburnian Warbler**: 17 Apr (1) Radnor L (PDC), ers. **Yellow Warbler**: 17 Apr (1) Radnor L (Scott Block, NTOS), ers. **Chestnut-sided Warbler**: 20 Apr (1) Radnor L (Mike Smith), ers. **Blackpoll Warbler**: 18 Apr (1) Radnor L (FF), ers. **Yellow-throated Warbler**: 23 Mar (1) Davidson Co (Durwood Edwards), ers. **Prairie Warbler**: 10 Apr (1) Radnor L (KBo, NTOS), ers. **Wilson's Warbler**: 8 / 18 May (1) Radnor L (KBo, NTOS / CAS).

Sparrow - Grosbeak: **Vesper Sparrow**: 11 / 31 Mar (1 / 8) Robertson Co (TL), ers / max. **Lark Sparrow**: 9 / 23 Apr (1) Hickman Co, separate sites (SGS / WMP, RS); 28 Apr (3) Eagleville (SGS); 1 May (1) Stewart Co (DMo). **Grasshopper Sparrow**: 10 Apr (1) Rutherford Co (SZ), ers. **Henslow's Sparrow**: 17 Apr (1) Bell's Bend (FF), ers; 26 Apr (13) Montgomery Co (DMo); 13 May (1) near Old Hickory Dam (SGS); 21 May (6) Bark Camp Barrens WMA, Coffee So (SGS). **Fox Sparrow**: 10 Apr (1) Montgomery Co (DMo), lrs. **Lincoln's Sparrow**: 2 Apr (1) Rutherford Co (DBE). **Summer Tanager**: 20 May (42) western Putnam Co (SJS), max. **Scarlet Tanager**: 9 Apr (1) Murfreesboro (CW), ers. **Rose-breasted Grosbeak**: 11 Apr (1 male) Nashville (Scott Block), ers. **Indigo Bunting**: 11 Apr (1) Wayne Co (Jud Johnston), ers. **Dickcissel**: 26 Apr (1) Duck R Unit (SY), ers. **Bobolink**: 29 Apr (15) Duck R Unit (CF), ers. **Rusty Blackbird**: 7 Mar (250) Nashville (CAS), max.

Brewer's Blackbird: 1 Mar (10) Rutherford Co (CW); 10 Mar (1) Duck R Unit (RS); 18 Mar (1 male, 4 females) Cedar Hill, Robertson Co (TL). **Orchard Oriole**: 17 Apr (1) Bell's Bend (FF), ers. **Pine Siskin**: lingered thru Apr at several sites; 13 May (1) Shelby Bottoms (SGS, TL, KBo), lrs. **Evening Grosbeak**: 12 / 13 Apr (1 male / pair) Montgomery Co (Barbara Wilbur).

Locations: Bell's Bend - Davidson Co; Cross Cr NWR - Stewart Co; Duck R Unit - unit of the Tenn. NWR, Humphreys Co; Eagleville - Rutherford Co; Little Elder Is - Woods Reservoir, Franklin Co; Murfree Spring - Rutherford Co; Old Hickory L - Davidson Co; Percy Priest L and WMA - Rutherford Co; Radnor L - Davidson Co; Shelby Bottoms - Davidson Co.

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CUMBERLAND PLATEAU / RIDGE and VALLEY REGION - - This spring was cooler and wetter than average. In particular, March had well below average temperatures, but April and May were slightly cooler as well. A surplus of precipitation fell each month. This combination seemed to delay the flow of migrants. As a result of all the rain, the upper lakes reached full pool earlier than usual, inundating much shorebird habitat.

Several rare species of duck, loon and grebe lingered into spring. Sightings of Anhinga and Least Tern added to the few reports of either in East Tennessee. Two reports of Brown Pelican were possibly of the same bird; of roughly 14 records of this normally coastal species in Tennessee, 11 have occurred since 1996. Noteworthy shorebirds included Willet, Upland Sandpiper, and two species of phalarope.

A Common Raven nest under the massive grandstands of Bristol Motor Speedway fledged three young, having withstood the chaotic din of race week in March. A McCown's Longspur in Hamilton County was quite a surprising discovery. Although well photographed, it was observed on just the one day. Birders in the Tri-cities area commented on a poor warbler migration, especially for purely transient species, while the Knoxville area saw a better flight. Red Crossbills were unexpected at two sites in the southern and western portions of the region.

Goose - Pelican: **Snow Goose**: 12 Apr (1) Rankin Bottoms (MBS), lrs. **Ross's Goose**: 8 Mar (4) Limestone (GDE, RLK). **Cackling Goose**: from Feb thru 9 Mar (1) Steele Cr Park (LCM). **Redhead**: 2 Mar (52) Greene Co (DHM); 8 Mar (70) Limestone (RLK, Jim Anderson); 10 Mar (200) Kyker Bottoms, Blount Co (Bob Howdeshell); continuation of impressive late winter showing. **Greater Scaup**: 28 Apr (2) Cove Lake SP (Harold Howell, Chris Welsh), lrs. **Harlequin Duck**: from Feb thru 13 Mar, then again 24 Apr and 8-11 May (1) Kingsport (m.ob.). **Surf Scoter**: 9-19 May (1 im. male) Austin Springs (RRK, RLK, m.ob.), quite late. **Long-tailed Duck**: from Feb thru 2 Apr (1) Cumberland Co (EKL). **Hooded Merganser**: 13 May (2) Rankin Bottoms (MBS), lrs. **Common Merganser**: 24-25 Mar (2, male and female) South Holston R, Sullivan Co (Lois Cox, Wilma Boy, m.ob.); 4 Apr (1 male) John Sevier L (SHu). **Red-throated Loon**: Feb thru 9 Mar (1-2) Chickamauga L (KAC, m.ob.). **Eared Grebe**: 27 Apr (1, breeding plumage) Chickamauga L (DRJ), likely

same bird as in Feb. **Western Grebe**: Feb thru 9 Mar (1) Chickamauga L (KAC, m.ob.). **ANHINGA**: 8 Apr (1 female) Long Branch Lakes, Van Buren Co (Tracy Cobb, photo, fide SGS). **BROWN PELICAN**: mid-Apr (1) German Cr arm of Cherokee L, Grainger Co (Gary Loucks fide SGS); 25-27 May (1 im) Fort Loudoun Dam / Tellico Dam area, Loudon Co (Sharon Monett, photo, m.ob.); conceivably the same bird.

Bittern - Crane: **American Bittern**: 2 Apr (1) McMinn Co (Ryan Trenkamp); 8 May (1) Kingsport (RLK); 11 May (2) Hamilton Co (fide KAC). **Great Egret**: 23 Mar (5) John Sevier L (SHu), ers. **Snowy Egret**: 6 May (2) Austin Springs (RLK, m.ob.). **Cattle Egret**: 19 Apr (2) Standifer Gap Marsh (David Hollie); 19 Apr (2) Cove Lake SP (Nell Moore); 12 May (1) Austin Springs (Harry Farthing). **Green Heron**: 9 Apr (1) Knox Co (KDE), ers. **Yellow-crowned Night-Heron**: 16 Mar (4) Kingsport (RLK, Jacki Hinshaw), ers, eventually with 3 active nests. **Osprey**: 4 Mar (2) Steele Cr Park (DAH), ers. **Mississippi Kite**: 2 May (1) Sharp's Ridge, Knoxville (SMc, Stan Wallace). **Bald Eagle**: new nest near Austin Springs, 1st in Washington Co (RLK, m.ob.). **Red-shouldered Hawk**: 16 Mar thru season (active nest) Kingsport (RLK), scarce in northeast Tenn. **Broad-winged Hawk**: 8 Apr (1) Steele Cr Park (DAH), ers. **Virginia Rail**: 9 Apr - 8 May (1-2) Kingsport (RLK, m.ob.); 9 Apr (1) west Knox Co (Mark Campen). **Sora**: 29 Mar - 22 Apr (1-3) Kingsport (Rick Phillips, m.ob.); 14 Apr (1) Standifer Gap Marsh (KAC, DRJ, Gary Brunvoll); 21 Apr (3) Bledsoe Co (Roi Shannon); 9 May (1) Melton Hill - Haw Ridge greenway, Anderson Co (KDE). **Common Gallinule**: 28 Mar - 2 Apr (1) John Sevier L (SHu); 23 May (1) Brainerd Levee (Janice Chadwell, m.ob.). **Sandhill Crane**: 30 Mar (1) Bible Refuge, Greene Co (Mark Labig); 24 Apr (3, flying over) Washington Co (Dianne Draper, April Mattes), late and east of usual corridor.

Shorebirds: **Black-bellied Plover**: 10 May (3) Eagle Bend (RDH, DMy). **American Golden-Plover**: 9 Mar (1) Brainerd Levee (TLR et al.); 28 Mar (1) Washington Co (FJA). **American Avocet**: 27 Apr (36) Steele Cr Park (LCM); 28 Apr (1) Eagle Bend (Mike Smith fide RDH). **Solitary Sandpiper**: 9 Mar (1) Brainerd Levee (TLR et al.), ers. **Greater Yellowlegs**: 9 Mar (1) Brainerd Levee (TLR et al.), ers. **Willet**: 9 May (1) Austin Springs (RRK, Gil Derouen, Reese Jamerson). **Upland Sandpiper**: 23-24 Apr (1) Eagle Bend (Tony King, m.ob.). **White-rumped Sandpiper**: 11 May (1) Eagle Bend (RDH, DMy et al.); 16 May (6) Brainerd Levee (KAC). **Pectoral Sandpiper**: 9 Mar (3) Brainerd Levee (TLR et al.), ers. **Dunlin**: 7 May (1) Washington Co (RLK); 17 May (1) Eagle Bend (Shane Williams, Stan Wallace). **Short-billed Dowitcher**: 11 May (1) Eagle Bend (RDH, DMy et al.). **American Woodcock**: 11 May (1, freshly dead) West Town Mall, Knoxville (KDE); 30 May (1) McMinn Co (Ryan Trenkamp). **Wilson's Phalarope**: 16 May (1) Brainerd Levee (KAC). **Red-necked Phalarope**: 6 May (1) Austin Springs (TSM, CMy, m.ob.).

Tern - Falcon: **LEAST TERN**: 17 May (1) Eagle Bend (Shane Williams, Stan Wallace); 17 May (1) Cove Lake SP (Nell Moore); possibly the same bird, as the sites are about 14 straight-line miles apart (further if bird flew upstream). **Caspian Tern**: 31 Mar (1) John Sevier L (SHu); 26 Apr (1) Chickamauga L (Tim Jeffers). **Black Tern**: 27 Apr (1) Gunstocker Cr, Meigs Co (DCC), only report. **Forster's Tern**: 27 Apr (2) Meigs Co (DCC); **Yellow-billed Cuckoo**: 17 Apr (1) Greenway Farm (DA), ers. **Black-billed Cuckoo**: 10 May (1) Sullivan Co (DAH); 11 May (1) Hamilton Co (fide KAC). **Barn Owl**: early Apr (nest with 7

eggs) Knox Co (fide KDE); 21 Apr (active nest) Bible Refuge, Greene Co (DHM). **Chimney Swift**: 31 Mar (1) Austin Springs (RLK), ers. **Ruby-throated Hummingbird**: 5 Apr (1) Marion Co (J.N. Howard, Ella Howard), ers. **Rufous / Allen's Hummingbird**: 12-20 Apr (1, female) Washington Co (Lynn Carter fide FJA, RLK), not present earlier in season. **Merlin**: 9 Mar / 6 May (1) separate Sullivan Co sites (RLK); 27 Apr (1) Sharp's Ridge (SGS, Chris Welsh); 28 Apr (1) Oak Ridge Reservation, Roane Co (Chuck Estes, Tony King). **Peregrine Falcon**: 2 Mar (1) Greene Co (DHM); 5 Mar (1) Kingsport (DW).

Flycatcher - Longspur: **Eastern Wood-Pewee**: 17 Apr (1) Greenway Farm (DA), ers. **Acadian Flycatcher**: 17 Apr (1) Greenway Farm (DA), ers. **Great Crested Flycatcher**: 13 Apr (1) Greene Co (DHM), ers. **Eastern Kingbird**: 5 Apr (1) Hamilton Co (TLR), ers. **Scissor-tailed Flycatcher**: 21 Apr thru season (2) Ninemile Crossroad, Bledsoe Co (Roi Shannon, m.ob.). **White-eyed Vireo**: 8 Apr (1) Greenway Farm (DA), ers. **Yellow-throated Vireo**: 1 Apr (1) Greenway Farm (DA), ers. **Blue-headed Vireo**: 15 Mar (1) Marion Co (TLR), ers. **Warbling Vireo**: 16 Apr (1) Washington Co (RLK), ers, with 8+ on territory by season's end. **Red-eyed Vireo**: 9 Apr (1) Craven's House (KAC), ers. **Fish Crow**: 15 Apr (15) Nickajack L, Marion Co (TLR), max. **Common Raven**: 24 Mar (3) western Greene Co (DHM); 22 Apr (3 large yg in nest) Bristol Motor Speedway, Sullivan Co (Michele Sparks), nest under grandstands; 27 Apr (1) Cross Mtn Campbell Co (SGS). **Cliff Swallow**: 21 Mar (2) Eagle Bend (Chuck Estes), ers. **Barn Swallow**: 18 Mar (1) Sullivan Co (GDE), ers. **Marsh Wren**: 13 Apr (1) Kingsport (Rick Phillips); 11 May (1) Austin Springs (RLK). **Blue-gray Gnatcatcher**: 21 Mar (1) Chattanooga (DA), ers. **Gray-cheeked Thrush**: 22 Apr (1, ba) Greenway Farm (DA), ers. **Swainson's Thrush**: 13 Apr (1) Greene Co (DHM), early. **Wood Thrush**: 14 Apr (1) Lookout Mtn, Hamilton Co (KAC, DRJ), ers. **American Pipit**: 11 May (8) Austin Springs (RLK), lrs. **Cedar Waxwing**: absent since winter in Tri-cities area until influx in early May. **McCOWN'S LONGSPUR**: 23 Mar (1) Camp Jordan, Hamilton Co (DRJ, photo - KAC), 2nd state record.

Warblers: **Worm-eating Warbler**: 12 Apr (1) Sharp's Ridge (Shane Williams), ers. **Louisiana Waterthrush**: 18 Mar (1) Sequatchie Co (Clyde Blum), ers. **Northern Waterthrush**: 22 Apr (1, ba) Greenway Farm (DA), ers. **Golden-winged Warbler**: 24 Apr (1) Greenway Farm (DA), ers. **Blue-winged Warbler**: 12 Apr (1) Sharp's Ridge (SMc), ers. **Black-and-white Warbler**: 1 Apr (1) Greenway Farm (DA), ers. **Prothonotary Warbler**: 13 Apr (1) Rankin Bottoms (MBS), ers; 24 Apr (1) Eagle Bend (RDH, DMy); 29 Apr (1) Mossy Cr, Jefferson Co (Mark Labig); 5 May (2) Kinser Park, Greene Co (DHM). **Tennessee Warbler**: 17 Apr (1) Greenway Farm (DA), ers. **Orange-crowned Warbler**: 14 Apr (1) Greene Co (DHM); 14 Apr (1) Moccasin Bend, Hamilton Co (KAC, DRJ); 24 Apr (1, ba) Greenway Farm (DA); 27 Apr (2) Sharp's Ridge (SGS, Chris Welsh). **Nashville Warbler**: 20 Apr (1) Sharp's Ridge (Mark Labig), ers. **Connecticut Warbler**: 17 / 18 May (1 male / 1 female, both ba) Greenway Farm (DA). **Mourning Warbler**: 13 May (1, ba) Greenway Farm (DA). **Common Yellowthroat**: 10 Apr (1) Knox Co (KDE), ers. **Hooded Warbler**: 9 Apr (1) Craven's House (KAC), ers. **American Redstart**: 10 Apr (1) Frozen Head, Morgan Co (SMc), ers. **Cape May Warbler**: 5 Jun (1 male) Knoxville (Mike Nelson, photo), new late departure date for state. **Cerulean Warbler**: 10 Apr (1 each) Craven's House / Frozen Head, Morgan Co (KAC / SMc), ers;

25 Apr (1) Johnson City (FJA), only report in Tri-cities area. **Yellow Warbler**: 12 Apr (1) Greenway Farm (DA), ers. **Black-throated Blue Warbler**: 3 May (1, ba) Greenway Farm (DA). **Yellow-throated Warbler**: 5 Apr (1) Steele Cr Park (LCM), ers. **Prairie Warbler**: 12 Apr (1) Greenway Farm (DA), ers. **Black-throated Green Warbler**: 31 Mar (1) Sequatchie Co (Clyde Blum), ers. **Wilson's Warbler**: 2 May (1) Sharp's Ridge (SMc).

Sparrow - Siskin: **Grasshopper Sparrow**: 13 Apr (1) Greene Co (DHM), ers. **Lincoln's Sparrow**: 29 Apr (1) Knox Co (KDE). **Swamp Sparrow**: 8 May (1) Kingsport (RLK), lrs. **Summer Tanager**: 14 Apr (1) Lookout Mtn, Hamilton Co (KAC, DRJ), ers. **Scarlet Tanager**: 9 Apr (1) Craven's House (KAC), ers. **Rose-breasted Grosbeak**: 11 Apr (1 male) Cleveland (Marty Paige), ers. **Indigo Bunting**: 15 Apr (1) Nickajack L, Marion Co (TLR), ers. **Dickcissel**: from Feb thru 8 Mar (1, at feeder) Maryville, Blount Co (WB); 7 May (1) Limestone (RLK), ers; 18 May (2) Greene Co (DHM). **Bobolink**: 6 May (60+) Sullivan Co (RLK), max. **Purple Finch**: several reports thru early May; 21 May (1) Sullivan Co (GDE), lrs. **Red Crossbill**: 14 Mar (3) Southern Adventist University, Hamilton Co (David Hollie); 24 May (4-8) Big Bottom unit of Bridgestone-Firestone Centennial Wilderness WMA, Van Buren Co (SGS). **Pine Siskin**: several reports thru early May; 29 May - 2 Jun (1) Sullivan Co (GDE), lrs.

Locations: Austin Springs, Washington Co; Brainerd Levee, Hamilton Co; Chickamauga L, Hamilton Co; Cove Lake SP, Campbell Co; Craven's House - unit of Chickamauga and Chattanooga National Military Park in Hamilton Co; Eagle Bend - fish hatchery, Anderson Co; Greenway Farm, Hamilton Co; John Sevier L, Hawkins Co; Limestone, Washington Co; Rankin Bottoms, Cocke Co; Sharp's Ridge, Knox Co; Steele Cr Park, Sullivan Co.

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EASTERN MOUNTAIN REGION - - Precipitation was near normal for the period. Roan Mountain received over 16 inches of snow during 24-26 March. March was much cooler than normal, while temperatures in April and May were near normal. The very cool March and a cool period at the end of April seemed to hold back migration.

An unusual observation was a Red-necked Grebe in breeding plumage at Watauga Lake which was present for two weeks. The Bald Eagle expansion into northeast Tennessee included three new nesting locations representing new nesting records for Carter, Johnson, and Unicoi counties. The highlight of the season was a Clay-colored Sparrow at Sycamore Shoals State Park in Elizabethton. This was the first occurrence of this species for the mountain region. Snowy Egret, Purple Gallinule and Willet were also good finds.

Duck - Eagle: **Northern Shoveler**: 17 Apr (6) South Holston L (RLK). **Redhead**: 4 Mar (200) Watauga L (BJ, BP); 10-12 Mar (60) pond near Elizabethton (John Adams et al.); continuation of strong winter showing; 15 Apr (1) Watauga R near Elizabethton (BJ, BP), lrs. **Greater Scaup**: 4 Mar (1) Erwin (JHM). **Common Merganser**: 2-4 Apr (pair) Watauga L (GDE, BJ, BP). **Horned Grebe**: 27 Apr (1) Watauga L (TSM), lrs. **Red-necked Grebe**: 14 Apr - 2 May (1, in breeding plumage) Watauga L (FJA, m.ob.). **Double-crested**

Cormorant: 11 May (85) South Holston L (RLK), max. **Great Blue Heron**: mid Apr (single nest each) Watauga R / Watauga L (TSM / RLK). **Great Egret**: 31 Mar (1) Happy Valley, Carter Co (FJA); 8 May (1) Watauga R in Elizabethton (TSM). **Snowy Egret**: 8 May (1) Watauga R in Elizabethton (TSM), likely one of two seen downstream at Austin Springs two days earlier. **Black-crowned Night-Heron**: 11 May (1 ad) South Holston L (RLK). **Yellow-crowned Night-Heron**: 12 Apr thru season (2 nests) Watauga R near Elizabethton (TSM, m.ob.). **Osprey**: 17 Mar (1) Watauga R (TSM, CMy), ers. **Bald Eagle**: new active nests were discovered at 3 sites on the Nolichucky R, Unicoi Co (JHM), on the Roan Cr arm of Watauga L, Johnson Co (Paul Schmees fide SGS and Wallace Coffey), and at Wilbur L, Carter Co (BJ, BP); the latter nest was lost when the tree fell during a storm, but the other two had 2 yg each by mid-May; these were the first known nests for each county. **Northern Harrier**: 7 May (1) Cades Cove, GSMNP (WB), lrs. **Golden Eagle**: 4 Apr (1, feeding on deer carcass) near Butler, Johnson Co (Jim Stelick fide JHM).

Rail - Falcon: **Virginia Rail**: 24 Apr (2) Orchard Bog, Shady Valley (RLK). **Sora**: 27 Apr (1) Orchard Bog, Shady Valley (GDE, RRK); 16 May (1) Quarry Bog, Shady Valley (TSM, CMy). **PURPLE GALLINULE**: early May (1) marshy area close to the Pigeon R, Cosby, Cocke Co (photo fide MBS). **Sandhill Crane**: 27 Apr (3, flying over) Siam, Carter Co (Gary Wallace, BJ, BP). **Semipalmated Plover**: 11 May (2) Great Lakes pond, Carter Co (DW). **Willet**: 9 May (35) L Ocoee, Polk Co (Rick Houlk). **American Woodcock**: 26 May (4, all together) Hampton Cr Cove (Nora Schubert), probably a family group. **Bonaparte's Gull**: 9 May (1) South Holston L (RRK, Gil Derouen, Reese Jamerson), lrs. **Herring Gull**: 9 May (1) South Holston L (RRK, Gil Derouen, Reese Jamerson), lrs. **Caspian Tern**: 16 / 27 Apr (2 / 1) Watauga L (RRK / TSM); 17 Apr (2) South Holston L (RLK). **Forster's Tern**: 17 / 27 Apr (6 / 1) South Holston L (RLK / RRK, GDE et al.). **Black-billed Cuckoo**: 14 / 20 May (1) Hampton Cr Cove (Nora Schubert / TSM). **Northern Saw-whet Owl**: 27 Apr (2) Unaka Mtn, Unicoi Co (JHM); 20 May (1) Roan Mtn (BJ, BP). **Eastern Whip-poor-will**: 7 Apr (1) Del Rio, Cocke Co (MBS), ers. **Red-headed Woodpecker**: from winter thru 13 May (1-2) Watauga L (TSM, RLK); 4 May (1, at feeder) Roan Mtn, at 4450 ft. elevation (SHu). **Merlin**: 10 Apr (1) Watauga R (RLK). **Peregrine Falcon**: 13 Mar thru season (pair) Doe R gorge, Carter Co (Peter Range, RLK).

Flycatcher - Warbler: **Alder Flycatcher**: 20 May (1) Carver's Gap, Roan Mtn (TSM, CMy), ers. **Willow Flycatcher**: 14 May (2) Quarry Bog, Shady Valley (DW), ers. **Eastern Kingbird**: 9 Apr (1) Holston Valley, Sullivan Co (RRK et al.), ers. **Loggerhead Shrike**: thru season (1) Holston Valley, Sullivan Co (m.ob.). **Blue-headed Vireo**: 1 Apr (2) Buffalo Mtn (Kathy Noblet), ers. **Red-eyed Vireo**: 12 Apr (1) Wilbur L (BJ, BP), ers. **Barn Swallow**: 19 Mar (1) Cades Cove, GSMNP (WB), ers. **Red-breasted Nuthatch**: 26 May (1) Paint Mtn, Greene Co (DHM). **Blue-gray Gnatcatcher**: 6 Apr (1) Buffalo Mtn (DW), ers. **Cedar Waxwing**: absent in northern counties from mid-winter until influx in early May. **Worm-eating Warbler**: 17 Apr (2) Watauga Dam (TSM, CMy), ers. **Louisiana Waterthrush**: 19 Mar (2) Buffalo Mtn (DW), ers. **Northern Waterthrush**: 7 / 14 May (1 / 2) Erwin (RLK). **Blue-winged Warbler**: 8 May (1) Erwin (David Kirschke), only report. **Golden-winged Warbler**: 18 Apr (1) Buck Mtn, Carter Co (JHM), ers. **"Brewster's" Warbler**: 15 May (1)

Hampton Cr Cove (RLK). **Prothonotary Warbler**: 8 May (1) Watauga R, Elizabethton (TSM, CMy), only report. **Hooded Warbler**: 10 Apr (2) Buffalo Mtn (Nora Schubert), ers. **Northern Parula**: 10 Apr (2) Buffalo Mtn (RLK), ers. **Blackburnian Warbler**: 10 Apr (1) Sugarlands, GSMNP (Keith Watson, Kevin Burke), ers. **Blackpoll Warbler**: 8 May (1) Erwin (David Kirschke); 19 May (1) Elizabethton (TSM); only reports. **Black-throated Green Warbler**: 6 Apr (1) Weaver's Bend, Cocke Co (DAH), ers.

Sparrow - Siskin: **CLAY-COLORED SPARROW**: 11-13 May (1, at feeder) Sycamore Shoals SP, Carter Co (TSM, m.ob., photos), first in region and about 13th in state. **Vesper Sparrow**: 23 Apr (1) Round Bald on Roan Mtn (Kathy Noblet), ers on breeding site. **Rose-breasted Grosbeak**: 12 Apr (1) Wilbur L (BJ, BP), ers **Bobolink**: 27 Apr (3) Shady Valley (GDE, RRK et al.). **Orchard Oriole**: 20 Apr (1) Simerly Cr, Carter Co (Bryan Stevens), ers. **Purple Finch**: a few lingered thru early May at area feeders (m.ob.). **Red Crossbill**: 16 May (6) Unaka Mtn, Unicoi Co (RRK, Gil Derouen, Reese Jamerson), only report. **Pine Siskin**: small numbers at area feeders during Apr - early May (m.ob.).

Locations: Buffalo Mtn, Washington Co; Elizabethton, Carter Co; Erwin, Unicoi Co; GSMNP - Great Smoky Mtns National Park; Hampton Cr Cove, Carter Co; Roan Mtn, Carter Co; Shady Valley, Johnson Co; South Holston L, Sullivan Co; Watauga L / R, Carter Co.

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